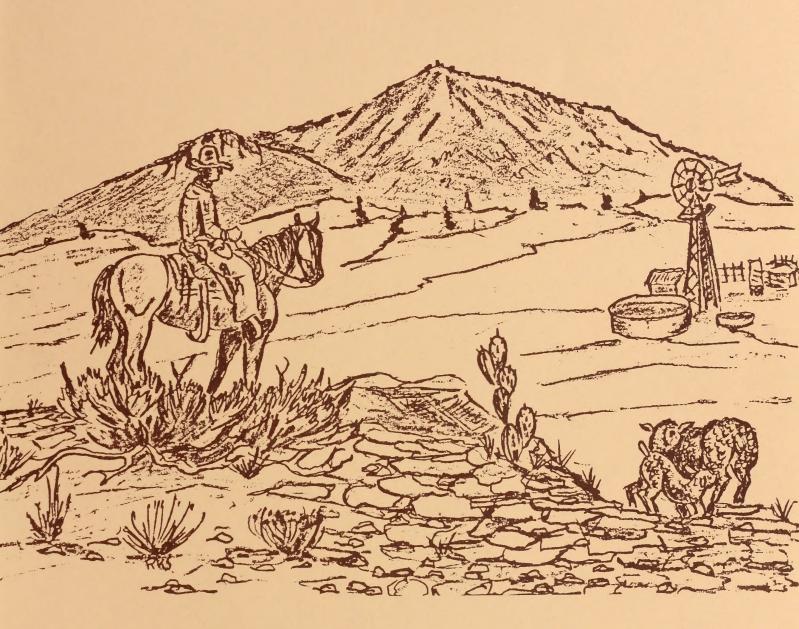
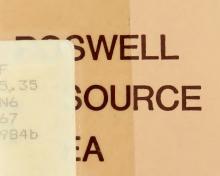
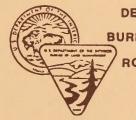


# FINAL

# MANAGEMENT FRAMEWORK PLAN AMENDMENT/ ENVIRONMENTAL IMPACT STATEMENT







BUREAU OF LAND MANAGEMENT
ROSWELL DISTRICT OFFICE



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DEPARTMENT OF THE INTERIOR Library BUREAU OF LAND MANAGEMENT 553A, Building 50
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MANAGEMENT FRAMEWORK PLAN AMENDMENT

FINAL

ENVIRONMENTAL IMPACT STATEMENT

ON

Bureau of Land Management Library

RANGELAND MANAGEMENT IN THE

Bldg. 50, Denver Federal Center Denver, CO 80225

ROSWELL RESOURCE AREA

Abstract: The Bureau of Land Management, Roswell District Office, proposes to implement a rangeland management program for the Roswell Resource Area located in Chaves, Lincoln, Quay, Curry, DeBaca, Guadalupe, and Roosevelt counties of southeastern New Mexico. The Rangeland Management issue involves the amount of vegetation available for grazing and other uses; the methods of monitoring and evaluation, and rangeland improvements. A Proposed Plan has been prepared following analysis of six previously formulated alternatives. The Plan was developed following a 90-day review of the Draft MFPA/EIS, which describes and analyzes the six alternatives. A general implementation schedule is outlined and included as part of the Proposed Plan.

Type of Action

(x) Administrative

( ) Legislative

For Further Information Contact: Phil Kirk, Roswell Resource Area Manager

or

Linda S.C. Rundell, EIS Team Leader

at

BLM, Roswell Resource Area P. O. Drawer 1857 Roswell, NM 88201

Phone: Commercial:

(505) 624-1790

FTS: 476-9204

Comments have been requested from: See Chapter 4.

Date Filed with EPA: April 13, 1984 Draft

Final

Recommended:

Approved:

District Manager Roswell District Office

Roswell, New Mexico

State Director, New Mexico

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# SUMMARY

#### INTRODUCTION

The Roswell District of the Bureau of Land Management is developing a rangeland management program for the Roswell Resource Area (RRA). The objectives of this program are, (1) to prescribe actions necessary to protect and improve the natural and environmental qualities of the area, (2) to provide food and habitat for wildlife and domestic animals, and (3) to provide for outdoor recreation and human occupancy and use.

The RRA contains approximately 1.5 million acres of public land in Chaves, Roosevelt, Lincoln, Curry, Quay, Guadalupe, and DeBaca counties in southeastern New Mexico. Of this amount, approximately 500,000 acres are in Chaves County east of the Pecos River. A Grazing Environmental Impact Statement and rangeland management program were completed and approved for this area in September 1979. The program was implemented in late 1979 and early 1980. This document will not include any additional proposed actions for the east Chaves area except for the chemical control of shinnery oak (Quercus havardii).

In the area excluding east Chaves County, there are 284 grazing allotments permitted or leased to 221 livestock operators. The public lands on these allotments support approximately 13,000 cattle and 36,000 sheep. The area contains approximately 8,000 miles of livestock fencing and 3,000 water developments. It is considered one of the more highly developed areas in the state. Many of these improvements have been constructed by livestock operators over the last 40 years.

Rangeland studies were established on this area in 1982. Initial range conditions determined from these studies place 25,000 acres (3 percent) in excellent condition, 510,000 acres (51 percent) in good condition, 340,000 acres (34 percent) in fair condition and 23,000 acres (2 percent) in poor ecological condition. The studies also included a determination of apparent trend. According to these studies, 845,000 acres are in an improving trend, 49,000 acres are in a static trend and 4,000 acres in a downward trend. Range condition and trend studies were not conducted on 93,000 acres of scattered isolated parcels of public land in the area.

Watershed studies place 60,000 acres (6 percent) in stable condition, 790,000 (79 percent) in a slight erosion class, 130,000 (13 percent) in a moderate class and 20,000 acres (2 percent) in a critical erosion class.

The area supports a variety of wildlife species, including approximately 25,000 mule deer and 4,800 pronghorn antelope. Ninety-five percent of the public land habitat for these species is in fair to good condition and is in a static trend. Five percent of the habitat is in poor condition and also in a static trend. Mule deer and pronghorn antelope numbers are either static or experiencing an upward trend depending on the herd locations. Approximately 700,000 acres of public lands are involved in a special antelope habitat study. This study will determine the suitability of the 700,000 acres to support introduced populations of pronghorn antelope.

Upland game birds are found throughout the area with the exception of the lesser prairie chickens, which are only found east of the Pecos River.

In 1983, the 284 grazing allotments were placed in management categories based on 3 criteria: resource conflicts, range condition and trend, and potential for improvement. As a result of this study, 84 allotments (609,252 acres) were placed in an "M" or "Maintain" category, 38 allotments (290,493 acres) were placed in an "I" or "Improve" category and 162 allotments (93,666 acres) were placed in a "C" or Custodial" category. The purpose of categorization is to help establish priorities for utilization of available funds and personnel in a manner which will achieve cost-effective improvement of rangeland condition, trend and production and to resolve conflicts with other resources. The "I" category allotments have the highest priority and potential for improvement.

#### DESCRIPTION OF ALTERNATIVES AND IMPACTS

Six rangeland management program alternatives have been developed for evaluation to determine which alternative or combination of alternatives will best achieve the 3 objectives mentioned on page i.

The alternatives, with a brief description, are discussed below.

# PROPOSED ACTION (PA)

The Proposed Action is the continuation of current management practices. It basically means things would be done and continue to happen, as they are at the present time. It includes the following components:

Authorized numbers of livestock would not change;

No new cooperative management plans (CMPs) would be developed;

BLM range improvement projects and vegetation treatments would be limited to the East Chaves area, Ft. Stanton Research Area, and allotments with existing Allotment Management Plans (AMPs).

The environmental consequences which would result with implementation of this alternative include the following:

Wildlife (big game, upland game and waterfowl) numbers would fluctuate slightly with climate and habitat conditions but would generally remain the same;

Range and watershed conditions would remain about the same and continue their current trends;

Recreation visitor hours would not change under this alternative;

No change in socioeconomic conditions would occur.

# DISTRICT PREFERRED ALTERNATIVE (DPA)

The management direction in this program is to enhance multiple resource values and correct identified problems through specific management actions. The DPA includes the following components:

Livestock adjustments would be made on "M" and "I" category allotments as indicated by existing rangeland monitoring studies.

CMPs would be prepared on the 38 allotments in the "I" category;

BLM range improvements and vegetation treatments would be implemented on the "I" category allotments.

The environmental consequences which would result with implementation of this alternative include the following:

Livestock numbers would decrease 4 percent in the short term and increase 7 percent in the long term;

Wildlife numbers would increase or remain unchanged.

Mule deer +17% Antelope +27%

Upland game and waterfowl - unchanged

Range conditions would improve; acreage in the good condition class would increase by 34 percent;

Watershed conditions would improve with the acreage in the critical erosion class decreasing by 35 percent;

Recreation visitor hours would increase by 18 percent (10,151 hours);

Socioeconomic conditions would reflect a 3.9 percent increase in ranch operators' overall gross income.

# INDUSTRY PREFERRED ALTERNATIVE (IPA)

This alternative was developed and offered by the New Mexico Department of Agriculture and the Southeastern New Mexico Grazing Association. In this alternative, emphasis is placed on range improvements and vegetation treatments with minimal BLM management. It includes the following:

Livestock adjustments would be made on "M" and "I" category allotments as indicated by existing rangeland monitoring studies.

No new CMPs would be developed on any allotments;

BLM range improvements and vegetation treatments would be implemented on the "I" category allotments through development plans.

The environmental consequences which would result with implementation of this alternative include the following:

Livestock numbers would decrease 4 percent in the short term and increase 3 percent in the long term;

Wildlife numbers would increase or remain unchanged;
Mule deer +11%
Antelope +9%
Upland game and waterfowl - unchanged;

Range conditions would improve, with acreage in the good condition class increasing by 8 percent;

Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent;

Recreation visitor hours would increase by 13 percent (7,403 hours);

Socioeconomic conditions would reflect a 3.5 percent increase in ranch operators' overall gross income.

# ELIMINATION OF LIVESTOCK GRAZING (ELG)

All domestic livestock grazing would be removed from the public lands under this alternative, which includes the following components:

All grazing preference would be suspended as permits and leases expire;

Existing AMPs would be cancelled. No new CMPs would be developed;

BLM rangeland improvement projects would be for wildlife habitat and watershed improvement by special appropriation.

The environmental consequences which would result with implementation of this alternative include the following:

Livestock numbers would decrease 78 percent in the short term and 100 percent in the long term;

Wildlife numbers would increase:

Mule deer +33% Antelope +49%

Upland game and waterfowl - slight increase;

Range conditions would improve, with acreage in the good conditon class increasing by 53 percent;

Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent;

Recreation visitor hours would increase by 35 percent (19,040 hours);

Socioeconomic conditions would reflect a 47.8 percent decrease in ranch operators' overall gross income.

# MAXIMIZATION OF FORAGE FOR LIVESTOCK (MAX)

The management direction under this alternative is to initiate an intensive program of rangeland management to achieve maximum forage production for livestock. It includes the following:

Livestock adjustments would be made on "M" and "I" category allotments as directed by rangeland monitoring studies;

CMPs would be prepared on 122 allotments in the "M" and "I" categories;

BLM range improvements and vegetation treatments would be implemented on "M" and "I" category allotments.

The environmental consequences which would result with implementation of this alternative include the following:

Livestock numbers would decrease 5 percent in the short term and increase 28 percent in the long term;

Wildlife numbers would decrease:

Mule deer -5% Antelope -25%

Upland game and waterfowl - slight decrease;

Range conditions would change, with a 20 percent decrease in the good condition class acreage;

Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 35 percent;  $\underline{a}$ 

Recreation visitor hours would decrease by 7 percent (3,633 hours);

Socioeconomic conditions would reflect a 17.7 percent increase in ranch operators' overall gross income.

# DECREASED LIVESTOCK GRAZING (DLG)

Management direction is to improve range and watershed conditions and wildlife habitat through livestock reductions. Included in this alternative are the following:

Grazing preference would be reduced by 50% on fair condition range and by 100% on poor condition range;

No new CMPs would be developed;

BLM range improvement projects would be limited to the East Chaves area, Ft. Stanton, and allotments with existing AMPs.

The environmental consequences which would result with implementation of this alternative include the following:

Livestock numbers would decrease 23 percent;

Wildlife numbers would increase or remain unchanged:
Mule deer +21%
Antelope +16%
Upland game and waterfowl - unchanged;

Range conditions would improve, with the acreage in the good condition class increasing by 52 percent;

Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent;

Recreation visitor hours would increase by 17 percent (9,462 hours);

Socioeconomic conditions would reflect a 19.5 percent decrease in ranch operators' overall gross income.

 $<sup>\</sup>frac{a}{}$  Vegetation treatments would be accomplished on the areas that are included in the critical erosion class and management would be applied to these areas.

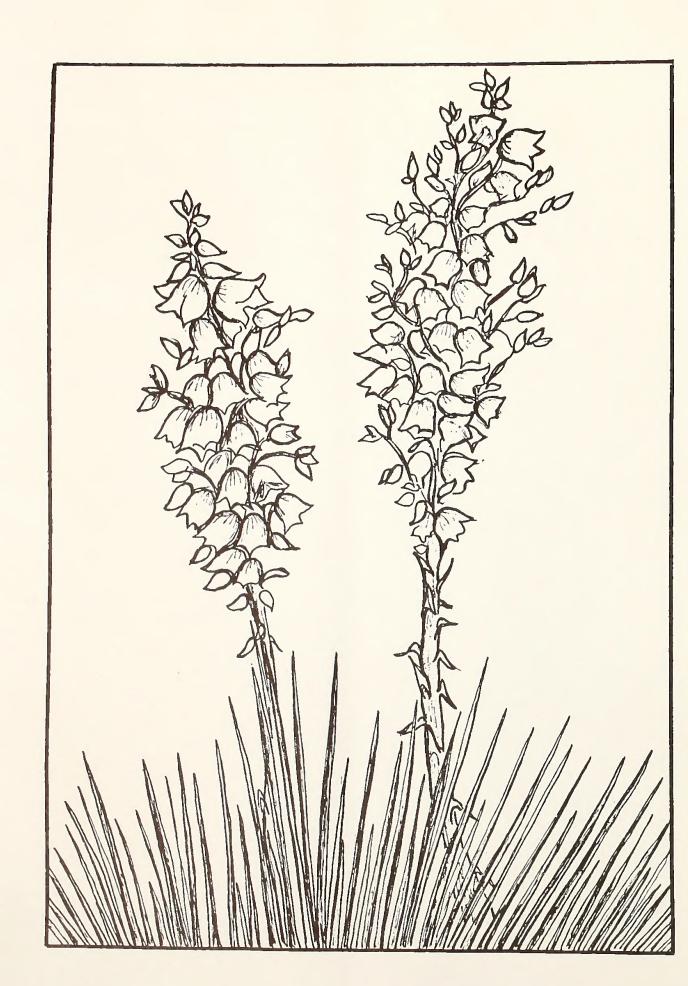


TABLE 1

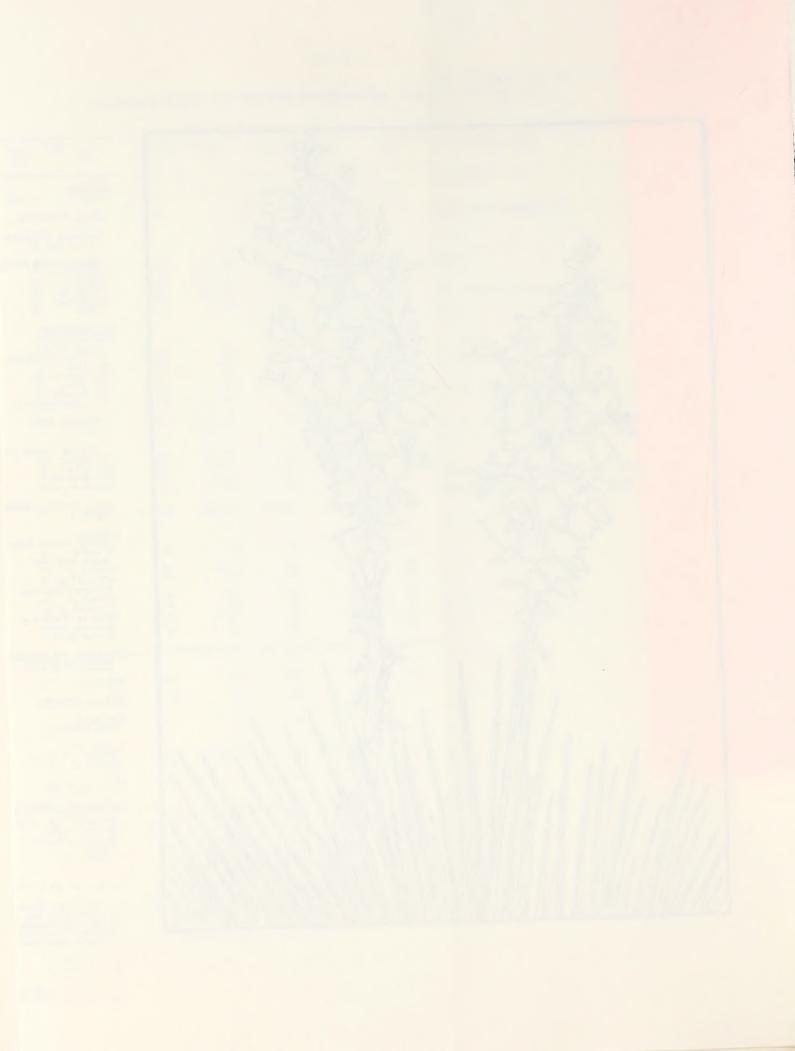
# COMPARISON OF ENVIRONMENTAL CONSEQUENCES

	4110	PA Long		PA Long		P A Long	Short EL		Short M		Short DL	
	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term
Vegetation AUMs	228, 656	228,656	219,695	246,028	219,695	236,937	51,924	D	220,871	296,061	175,686	175,686
Forage Production	NC	NC	NC	7%	NC	4%	4%	2%	8%	-1%	NC	2%
Ecological Condition Class (ac) <u>a</u> /												
Undetermined ("C") Excellent Good High Fair Low Fair Poor	b/ NC NC NC NC NC NC	93,666 25,332 51D,108 270,093 7D,710 23,502	NC NC Inc Oec Dec Oec	93,666 25,332 683,427 151,584 39,4D2 0	NC NC Inc Oec Dec Oec	93,666 25,332 552,15D 248,715 65,558 7,990	NC NC Inc Dec Dec NC	93,666 25,332 78D,201 45,21D 25,500 23,502	NC Dec Dec Inc Oec Oec	93,666 20,262 408,086 447,895 18,798 4,704	NC NC Inc Dec Dec NC	93,666 25,332 774,939 47,922 28,050 23,502
Soils/Watershed Surface Runoff Range Site: Loamy/Gyp Upland Loamy Loamy/Hills Sandy Malpais Limestone Hills	NC NC NC NC NC NC	NC NC NC NC NC	NC Oec NC NC NC	NC -18% NC NC NC	NC Oec NC NC NC NC	NC - 9% NC NC NC NC	NC Dec Dec NC NC NC	NC -9% -37% NC NC NC	Inc Oec Inc NC NC NC	10% -9% 20% NC NC NC	NC Dec Dec NC NC NC	NC -9% -19% NC NC NC
Sediment Yield	NC	.4D ac ft/ sq mi/yr	Dec	.3D ac ft/ sq mi/yr	Dec	.35 ac ft/ sq mi/yr	Dec	.35 ac ft/ sq mi/yr	0ec	.30 ac ft/ sq mi/yr	0ec	.35 ac ft/ sq mi/yr
Erosion Classes (ac Stable Slight Moderate Critical	NC NC NC NC	59,605 784,795 129,143 19,868	Inc Inc Inc Oec	61,605 787,795 131,143 12,868	Inc Inc Inc Oec	60,605 786,795 130,143 15,868	Inc Inc Inc Oec	6D, 605 786, 795 13D, 143 15, 868	Inc Inc Inc Dec	61,605 787,795 131,143 12,868	Inc Inc Inc Oec	6D, 605 786, 795 13D, 143 15,868
Oaily Livestock Consu (Gals)	mption NC	228,700	219,700	246,000	219,700	236,900	51,900	0	220,900	296,100	211,000	175,700
Wildlife Special Habitat Featu (SHFs) Oesert Mule Oeer West c/	NC NC	NC 1,809	NC Inc	NC 2,100	NC Inc	- 2,050 NC	+ Inc	2,435 NC	- 0ec NC	- 1,700 NC	NC Inc NC	NC 2,179 NC
(east) d/ Pronghorn Antelope West c/ (east) d/ Prairie Chickens d/ Mourning Oove Scaled Quail	NC NC NC NC NC	300 385 219 2,600 NC NC	Inc Inc Inc Inc Inc NC	518 469 365 3,700 Inc NC	NC Inc NC NC Inc NC	415 NC NC Inc NC	NC Inc NC NC Inc NC	512 NC NC Inc	Oec NC NC Oec NC	24D NC NC Dec NC	Inc NC NC NC NC	436 NC NC NC NC
Threatened and Endanger Plants and Animals		ny action whi	ch could adv	ersely impact	a T&E speci	es requires	site-specific	mitigation to	avoid a "may-	-affect" determ	ination.	
Air Quality	NC	NC	Dec	Inc	Dec	Inc	Inc	Inc	Dec	Inc	Inc	Inc
Cultural Resources	NC	NC	NC	NC	NC	NC	-	+	-	-	+	+
Recreation Cave Resources	NC	NC	+	+	NC	+	+	+	-	-	+	+
Visitor Hours: West c/ (east) d/	55,156 NC	55, 156 11,006	Inc Inc	65,3D7 17,335	Inc NC	62,559 NC	Inc NC	74,196 NC	0ec NC	51,523 NC	Inc NC	64,618 NC
Visual Resources	NC	NC	0ec	Inc	0ec	Inc	Inc	Inc	0ec	NC	NC	Inc
Socioeconomic Condition Gross Income Employment (no. of jo Personal Income Recreation Revenue e/	6,031,975	\$6,D31,975 NC NC	\$5,921,318 -7 -\$45,700	\$6,269,240 14 \$98,000	\$5,921,318 -7 -\$45,700	\$6,244,321 12 \$84,20D	\$3,73D,719 -195 -\$950,0DD	\$3,148,691 -230 -\$1,193,000	\$5,929,598 -6 -\$42,000	\$7,104,324 63 \$442,708	\$4,855,740 -70 -\$486,575	\$4,855,740 -70 -\$486,575
West c/ (east) d/	NC NC	\$759,273 \$73,207	Inc Inc	\$832,256 \$116,001	Inc NC	NC	Inc NC	\$895,874 NC	Oec NC	\$732,039 NC	Inc NC	\$827,090 NC

Source: 8LM RRA EIS Files

a/ Short term change is in the number of acres per class
b/ Condition class as yet undetermined due to the small amounts of public land involved or isolated and scattered tracts
c/ Resource Area excluding Chaves County east of the Pecos River
d/ Chaves County east of the Pecos River
bollars/year generated by recreational activities on public land

NC: No change
+: 8eneficial
-: Adverse
Inc: Increasing or Improving
Dec: Oecreasing or Declining



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# PROPOSED PLAN



# Proposed Rangeland Management Plan for the Roswell Resource Area

HOW THE PROPOSED PLAN WAS SELECTED

The Proposed Rangeland Management Plan was selected by a team composed of the District Manager, Area Manager, Team Leader, resource specialists, and was reviewed by the State Director. The plan was selected based on (1) the items of concern raised during the planning process, (2) public input received during the 90-day comment period and at public hearings and meetings, (3) the evaluation criteria described in the Draft MFPA/EIS, and (4) the environmental and socioeconomic analyses developed on the six previously formulated alternatives.

#### DESCRIPTION OF THE PROPOSED PLAN

The proposed plan is a modified version of the preferred alternative presented in the Draft MFPA/EIS. The modification to the District Preferred Alternative (DPA) incorporates portions of the Decreased Livestock Grazing Alternative (DLG), Industry Preferred Alternative (IPA) and the Maximization of Forage for Livestock Alternative (MAX). The proposed plan is described in detail below. To help the reader understand what the modifications to the DPA are, the modifications are underlined and then followed with a DLG, IPA or MAX to show which portion of each one of the alternatives has been incorporated into the proposed plan.

Objective. The main objective of the Proposed Plan is to enhance multiple resource values through a rangeland improvement program in accordance with current BLM policy. The Proposed Plan is designed to correct existing problems using a more intensive management program than is currently in effect and to maintain good conditions where they exist.

# PROPOSED PLAN

#### Livestock Use Authorization

Short term and long term stocking rates will be determined and adjustments made based on 5 years of monitoring studies after consultation with permittees and the Target Group. Decreases of livestock numbers will occur as needed in the "I" category allotments. Downward adjustments will be applied to, and in proportion to, the amounts of fair condition and poor condition acres as indicated by the monitoring studies. Reductions would be commensurate with the proportion of rangeland (per allotment) in fair or poor condition (DLG). Two year interim grazing decisions establishing interim stocking rates will be issued on "I" allotments by 12/31/85. Should the 3 years of completed monitoring studies indicate the need for immediate adjustments, they will be made through agreement or by decision. Further agreements or decisions on "I" allotments will be issued in the fall of 1987 based on 5-year monitoring studies. Adjustments will be implemented 3/1/88 and will start the 5-year adjustment schedule.

Any increases of livestock numbers will occur in "M" category allotments as indicated by 5 years of monitoring studies. Two year interim decisions will be issued by 6/30/85 on "M" allotments with no proposed change in

livestock use. Further decisions will be issued in the fall of 1987 based on 5-year monitoring studies.

No grazing decisions will be issued on "C" allotments as grazing use will remain unchanged. Livestock use authorization will be documented in the grazing case file and in the Rangeland Program Summary.

# Rangeland Improvements

First priority to authorizing the construction, modification and maintenance of range improvements will be given to improvements fully funded by permittees or lessees. Second priority will be given to BLM investment in improvements identified for the "I" category allotments (IPA). Improvements currently identified in the "I" category allotments include:

15.5 miles of 4 strand barbed-wire fencing

17.5 miles of net-wire fencing (non-antelope areas)

32.5 miles of water pipeline

38 new water developments

Third priority will be given to BLM investment in improvements identified for the "M" category allotments (MAX). These improvements include:

2 miles of 4 strand barbed-wire fence

12 miles of net-wire fencing (non-antelope areas)

36.6 miles of water pipeline

42 new waters

1 livestock exclosure a/

# **Vegetation Treatments**

First priority for vegetation treatments west of the Pecos River will be on "I" category allotments. Amounts currently identified are as follows:

Target Vegetation and Type of Control		Acres
Mesquite		
-Mechanical		1,785
-Chemical		20,065
Cholla		
-Mechanical		14,410
Creosote		,
-Chemical		1,970
Snakeweed		L /
-Chemical		13,142 b/
Sacaton		
-Prescribed Burn		650
		h /
	Total	52,022 <sup>D</sup> /

 $<sup>\</sup>frac{a}{}$  Approximately 22 acres directly above Torgac Cave will be excluded from livestock grazing as discussed on page 3-25 of the DEIS. The analysis presented for the DPA in Chapter 3 of the DEIS indicated that the exclosure will ensure protection of the cave resource as well as prevent livestock from being trapped in the sinkholes.

 $<sup>\</sup>frac{b}{}$  An additional 5,000 acres of snakeweed control were identified subsequent to the preparation of the DEIS.

Second priority for brush control projects west of the Pecos River will be on "M" category allotments as shown below (MAX).

Target Vegetation and Type of Control	Acres
Mesquite	
-Chemical	1,480
Cholla	7 460
-Mechanical	1,460
Creosote -Chemical	80
Sacaton	
-Prescribed Burn	1,230
Total	4,250

Shinnery oak control by chemical treatments will continue over a 15-year period on approximately 150,000 acres in Chaves County east of the Pecos River.

# Grazing Programs

Documented grazing programs and/or development plans (CMPs) will be implemented on "I" category allotments. Grazing programs will include deferred, rotation, high-intensity-short duration systems, and other specific grazing systems which combine proper grazing use with scheduled rest periods. Second priority for CMP development, if required for resource protection or to incorporate range improvement and vegetation treatments will be given to "M" category allotments (MAX).

#### Wildlife

Additional forage will be provided for big game and other wildlife species from vegetation treatments. Additional forage produced by improved range conditions will be available to improve wildlife habitat and increase big game herd numbers (DLG). Increased cover (sand bluestem grass) will be provided for lesser prairie chickens in the area east of the Pecos River through shinnery oak control.

# Authority/Constraints

All allotments have been placed into management categories based on initial range condition and trend studies, resource conflicts and potential for improvement as directed in the Final Livestock Grazing Management Policy (Washington Office Instruction Memorandum 82-292). As monitoring studies are completed, final categorization will be established and allotments needing adjustments will be identified.

The Federal regulations that govern changes in allocation of livestock forage provide specific direction for livestock use adjustments (43 CFR 4110.3-1, 4110.3-2, and 4110.3-3). The regulations specify that acceptable data is necessary to make reductions and that permanent increases or suspensions of livestock forage "shall be implemented over a five year period unless after consultation with the affected permittees or lessees and other affected interests, an agreement is reached to implement the increase or suspension in less than 5 years."

Public Law 94-579, The Federal Land Policy and Management Act, Section 401 (b)(1) directs that 50 percent of all monies received as fees for grazing livestock on public lands shall be made available for the purpose of on-the-ground range rehabilitation, protection and improvements. Policies and procedures regarding rangeland improvements are established in the Final Rangeland Improvement Policy (Washington Office Instruction Memorandum 83-27).

The authority and need for CMPs for achieving multiple use objectives is included in the Federal Land Policy and Management Act, Section 402, 43 CFR 4120.2, and the Final Grazing Management Policy.

The Federal Land Policy and Management Act of 1976 also mandates that the public lands be managed in a manner that will provide food and habitat for wildlife. The Final Rangeland Improvement Policy directs range betterment funds to be used to improve forage condition with resultant benefits to wildlife.

# Standard Operating Procedures

The following standard operating procedures have been adopted to reduce or eliminate adverse environmental impacts and, where possible, enhance resource values.

- l. Range improvements and vegetation treatments will be designed during specific cooperative management plan development. Site-specific impacts from projects will be analyzed in an Environmental Assessment.
- 2. Selection of specific sites for range improvements will be evaluated to ensure that highly erosive areas are avoided and to insure workability of the project.
- 3. Where soils and vegetation are disturbed, reclamation measures will be taken, if applicable. These measures include returning the land to as near its natural form as possible and reseeding with mixtures of grass, legumes, and forbs to maintain vegetative cover and prevent erosion.
- 4. Evaluation, ranking, and budgeting of rangeland improvements will be in accordance with the Final Rangeland Improvement Policy.
- 5. CMPs will be fully implemented, and an EA covering each CMP will be prepared. The plans will be monitored and evaluated following implementation so that periodic changes, if necessary, can be made on those plans not meeting multiple use objectives. Flexibility in deviating from the normal livestock operation will be provided for in each CMP.
- 6. Successful grazing programs already implemented by permittees and in use on ranches may be documented and incorporated into a plan.
- 7. If additional range improvements or vegetation treatments are identified, they will be assessed through the EA process prior to implementation.

- 8. All application rates of herbicides will be determined based on individual range sites and the conditions at the time of application.
- 9. Application of herbicides will conform to BLM Manual 9220 and State of New Mexico and U.S. Environmental Protection Agency (USEPA) standards. Herbicides proposed for use will be authorized by the USEPA, the New Mexico Department of Agriculture (NMDA), and the Department of Interior (DOI), and must be registered by the USEPA and NMDA. NMDA restricted use regulations will be consulted prior to any herbicide application.
- 10. Tractor-mounted root-knives will be used to grub mesquite and cholla. The uprooted mesquite will be left in place after grubbing to provide wildlife habitat. Uprooted cholla will be stacked and left in place or burned, depending on wildlife or other multiple-use needs.
- 11. In areas of vegetation treatment, livestock grazing would be deferred for a minimum of two consecutive growing seasons. A continual 16 month deferment period may be required in some instances.
- 12. Prescribed burning will be used primarily for maintenance of alkali sacaton or giant sacaton swales to remove rank and unpalatable growth. Site-specific EAs and burn plans will be developed for any prescribed burns.
- 13. Before surface-disturbing activities take place, cultural resources will be inventoried and evaluated. All reasonable efforts will be made to avoid adverse impacts on cultural resources. If impacts are unavoidable, BLM will consult with the State Historic Preservation Officer (SHPO) to develop mitigating measures.
- 14. Prior to the implementation of surface-disturbing activities, paleontological resources will be inventoried and evaluated.
- 15. The cultural resource program will properly identify those areas which are sprayed with chemical herbicide so that future excavators of those areas will be informed of the possiblity of contamination of radiocarbon samples. This information will then become a part of the antiquities permit issued for the excavation of that site.
- 16. Onsite analysis of areas proposed for inclusion in projected brush control treatments will be made to avoid highly desirable wildlife habitat which would be adversely affected by the treatments being considered.
- 17. Important wildlife habitat, such as broadleaf tree groves, aquatic and riparian sites, dirt tanks, watering tubs, active raptor nests, and the area around them will be protected during brush control operations. These areas will be protected through the use of nonlethal rates of herbicides, or other means as deemed appropriate by resource specialists. Pseudoriparian areas and most major drainages with perennial streams will be excluded from chemical treatment programs within a distance of 1,320 feet.
- 18. In areas of shinnery oak control, 20 to 30 percent of existing shinnery will be left for wildlife. The desired percent of uncontrolled shinnery can be attained by either applying the herbicide at a rate designed to achieve 70 to 80 percent kill or leaving interspersed areas of uncontrolled shinnery.

- 19. A threatened, endangered, State-listed, or proposed-listed species clearance will be conducted by a BLM staff biologist prior to the beginning of any project. If a "may affect" determination is made by the staff biologist, consultation will be undertaken with the agency [U.S. Fish and Wildlife Service (USFWS), New Mexico Department of Game and Fish (NMDG&F), or the New Mexico Natural Heritage Program (NMNHP)] listing the species which may be affected. The results of the consultation will determine the course of action necessary to avoid adverse effects on listed species.
- 20. Fences designed for construction in big game use areas will meet BLM fencing specification (BLM Manual 1737), unless otherwise authorized. Fences authorized by cooperative agreement or range improvement permits will be subject to modification to achieve management objectives deemed necessary by the authorized officer.
- 21. New or expanded grazing use and support facilities will be evaluated on a case-by-case basis so that impairment of wildlife habitat will be minimized or eliminated.
- 22. Where BLM controls water sources, water will be made available to wildlife when livestock are on and off the allotments or pastures; escape ramps will be required in all water troughs and open storage tanks.
- 23. Areas meeting riparian and wetland habitat criteria will be assessed to determine if protection is needed to provide wildlife habitat. Protection measures will be selected for individual situations to include protective fencing, adjustments in livestock use, and/or establishment of buffer strips, as necessary. Where domestic livestock are excluded from riparian areas, alternate water sources for livestock will be provided.
- 24. An environmental assessment will be prepared prior to the implementation of a Habitat Management Plan.
- 25. The 1.5 million acre area known as the Antelope Study Area will be managed as described in Chapter 2 of the Draft MFPA/EIS (New Mexico State University Study and recommendations).

#### Implementation

Figure 1 diagrams the general implementation schedule for the issuance of grazing decisions. BLM investments in range improvements, vegetation treatments, prescribed burns, and grazing programs will begin in Fiscal Year (FY) 1986. Appropriated funds available for investment in range improvements or vegetation treatments shall be allocated according to the BLM's procedures for evaluating, ranking, and budgeting proposed improvements (Washington Office Instruction Memorandum 83-27). Improvements, facilities, or treatments designed specifically to enhance wildlife habitat will be accomplished as special appropriations are made.

March	17 Months 1986									yb	ite
		THE STATE OF THE S								Issue Decisions on Improve Category <sup>b</sup>	RPS Update
	12	10 75						ion on tegory <sup>a</sup>	ions on ategory <sup>a</sup>	ions on Imp	
	, 6				nt		d Parties	Issue Decision on Maintain Category <sup>a</sup>	Issue Decisions on Custodial Category <sup>a</sup>	Issue Decis	
	2 1 1	715.0			Decision Document	Range Program Summary (RPS)	with Affected Parties				
			_	ent od	Decis	Range	Consultation wi		in , resi		
October	0 ' 2	<b>-</b> •	Final	Comm			Cons				
00	1984	Final									

<sup>a</sup>If consultation results in substantial changes from actions outlined in the RPS, issuance of decisions will be deferred until after the RPS update.

Decisions requiring more than 17 months to issue will be identified in the RPS update. The RPS update will give the reason for the extended time period and describe further actions needed to issue decisions by a specified date.

# FIGURE 1

#### RATIONALE

The combination of alternatives used to develop the Proposed Plan provides a balanced multiple-use approach towards rangeland management in the Roswell Resource Area. All components of the Proposed Plan have been analyzed in the DEIS. Table 2 displays a summary of the environmental consequences for the Proposed Plan. The changes from the DPA are a result of the additional AUMs which could be generated from the range improvements, vegetation treatments and grazing programs included from the MAX alternative. These changes are underlined in Table 2. The changes which resulted from the selection of components from the DLG and IPA did not significantly affect the impacts identified in the DPA.

The establishment of management categories will allow the BLM to concentrate funds and personnel on problem areas and in areas with high potential for improvement. Continued rangeland monitoring along with consultation with permittees will enable BLM to determine and establish proper stocking rates and respond to changes in ecological condition.

Public Law 94-579, the Federal Land Policy and Management Act of 1976, directs the BLM to appropriate 50 percent of the grazing fees derived from the District to be used for the on-the-ground rehabilitation, protection, or improvement of the rangelands.

Giving priority to the processing of privately funded range improvements will encourage permittees to initiate and develop needed improvements on their grazing allotments. The BLM will have an economic incentive as well, as this will allow the BLM to make even greater use of the appropriated rangeland improvement funding.

Rangeland improvements, grazing programs, and development plans are needed to improve distribution of livestock, improve range condition, and protect areas with high value for other resources. Vegetation treatments are needed to remove competing undesirable shrubs in areas of excessive shrub composition. The return and increase of native grasses and forbs will stabilize soils, decrease erosion, and improve wildlife habitat.

#### CONSISTENCY

No known inconsistencies exist between the Proposed Plan and offically approved resource-related policies and programs of other Federal Agencies, State and local governments, and Indian Tribes.

# TABLE 2 ENVIRONMENTAL CONSEQUENCES OF THE PROPOSED PLAN

Resource	Short Term	Long Term
getation		
AUMs	219,695	256,018
Forage Production	NC	11%
Ecological Condition Class (ac) a/		
Undetermined ("C") b/	NC	93,666
Excellent	NC	25,332
Good	Inc	683,427
High Fair	Dec	151,584
Low Fair	Dec	39,402
Poor	Dec	0
Ils/Watershed		
Surface Runoff		
Range Site:		
Loamy/Gyp Upland	NC	NC
Loamy	Dec	-18%
Loamy/Hills	NC	NC
Sandy	NC	NC
Malpais	NC	NC
Limestone Hiils	NC	NC
Sediment Yleld	Dec	.30 ac ft/sq ml/yr
Erosion Classes (ac)		
Stable	Inc	61,605
Slight	Inc	787,795
Moderate	Inc	131,143
Critical	Dec	12,868
Daily Livestock Consumption (Gals)	219,700	256,000
dlife		
Special Habitat Features (SHFs) Desert Mule Deer	NC	NC
West c/	Inc	2,100
(east) d/	Inc	518
Pronghorn Antelope	THE	710
West c/	Inc	469
(east) d/	Inc	365
Prairie Chickens d/	Inc	3,700
Mourning Dove	Inc	Inc
Scaled Quall	NC NC	
Scaled Anall	NC	NC
eatened and Endangered	ah aauld d	all two at Tab
Plants and Animals Any action which	ch could advers	ely impact a T&E spec
site-specific i	mitigation to a	void a "may-affect" d

Air Quality	Dec	Inc	
Culturai Resources	NC	NC	
Recreation - Cave Resources	+	+	
Visitor Hours: West c/ (east) d/	Inc Inc	65,307 17,335	
Visual Resources	Dec	Inc	
Socioeconomic Conditions Gross Income Employment (no. of jobs) Personal Income Recreation Revenue e/	\$5,921,318 -7 -\$45,700	\$6,523,785 14 \$102,000	
West c/ (east) d/	Inc Inc	\$832,256 \$116,001	

Source: BLM RRA EIS FIles

a/ Short term change is In the number of acres per class

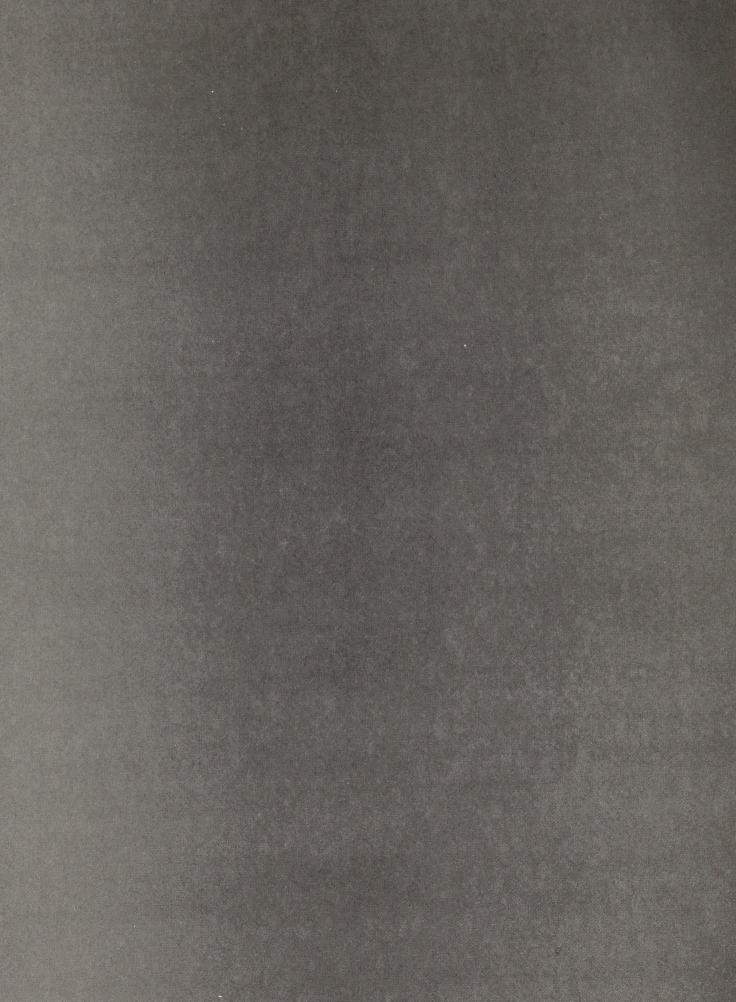
b/ Condition class as yet undetermined due to the small amounts

of public land involved or isolated and scattered tracts

c/ Resource Area Excluding Chaves County east of the Pecos River
d/ Chaves County east of the Pecos River
e/ Dollars/year generated by recreational activities on public land

NC: No change Beneficial +: -: Adverse Inc: Increasing or Improving Dec: Decreasing or Declining

# CONSULTATION AND COORDINATION



# Consultation and Coordination

#### INTRODUCTION

This chapter summarizes the consultation and coordination conducted in preparation of the Draft MFPA/EIS. A list of preparers is provided in Table 3.

#### Public Involvement

Scoping for the Roswell MFPA/EIS originated with the development of a Public Participation Plan and Issue Identification in the summer of 1981. Planning Criteria were developed in the fall of 1981 with input from the public and the District Grazing Advisory Board. Throughout the planning process, Federal, State, and local agencies, special interest groups, and other individuals were contacted. The contacts were made to inform the public about the planning process, to gather resource information, and to identify issues for consideration.

A general notice at the outset of the planning process inviting participation in the identification of issues and a notice inviting public comment on the planning criteria were circulated through Federal Register Notices, news releases, correspondence, and public meetings.

The original concept of developing a multi-issue Resource Management Plan (RMP) was modified when, due to budget constraints, rangeland management was identified as the single issue in the area. The first Federal Register Notice was published in June, 1981. A revised Notice, informing the public of the change from an RMP to an MFPA/EIS was published in March, 1983. Scoping activities are summarized in Table 4.

# Agency Coordination

The Biological Assessment was completed and sent to the Field supervisor for the U.S. Fish and Wildlife Service (USFWS). The final Biological Opinion from the USFWS was received on July 2, 1984. The Biological Assessment and Biological Opinion are presented in Appendix E.

#### Public Review of the Draft MFPA/EIS

The Roswell Draft MFPA/EIS was filed with the Environmental Protection Agency on April 13, 1984. The Notice of Availability and Public Hearing were published in the April 18, 1984, Federal Register (Vol. 49, No. 76, pp. 15281-15282). The Draft MFPA/EIS was made available to the public and the 90-day comment period ran from April 20, 1984 to July 19, 1984.

Approximately 450 copies of the Draft MFPA/EIS were distributed to the public and other agencies. A list of the individuals and agencies receiving copies of the Draft document can be found beginning on page 15.

Table 3 LIST OF PREPARERS

Name	MFPA/EIS Responsibility	Education	Years of BLM Experience
Phil Kirk	Area Manager	B.S., Range Management New Mexico State University	22
inda S.C. Rundeli	Team Leader	B.S., Wiidlife Science New Mexico State University	5
. Pat Kelley	Community Planner	B.S., Range Management B.S., Soil Science California State University	4
. Ray Keller	Range Condition, Range Improvements, Assumptions; Range Monitoring and Inventory Team Leader	B.S., Range Animal Science Sul Ross State University	7
icky K. Taylor	Vegetation, Livestock Grazing, Brush Control	B.S., Wiidlife Science B.S., Range Science New Mexico State University	3
ichael O. Howard	Wildlife, Chemical Toxicity	B.S., M.S., Wiidlife Science Sul Ross State University	5
oseph B. Hummel	Recreation	B.S., Natural Resources Humboldt State University	8
larence Seagraves	Watershed, Air Quality	B.S., Agronomy New Mexico State University	11
ames Konopinski	Watershed, Air Quality	B.A., Geography Bowling Green State University	2
. Ann Ramage	Cultural Resources	B.A., Anthropology University of New Mexico	7
eodoro Rael	Economics	M.A., Economics New Mexico Highlands Universit	6 Y
arry LaPlant	Pronghorn Antelope Study	B.S., Wildlife Management University of Montana	5
ngelina Medina	Support	Del Norte High School Albuquerque	3
inda S. Hewitt	Support	B.S., English Eastern New Mexico University	1
elen C.J. Miller	Support	B.S., Psychology University of New Mexico B.S., Wildlife Science New Mexico State University	3
Illustrators: Front Cover Interior Sketches	Roy Stovall Terry Keim		

#### Comments and Responses

During the 90-day public comment period (April 20 through July 19, 1984), 10 letters from the public and agencies were received. Four comment letters were received after the 90 day comment period had passed. All letters have been reproduced in their entirety, and responses made where required. Individuals or organizations who sent letters are listed in Table 5.

Responses have been made to all substantive comments presented in the letters. Substantive comments were considered to be those which addressed either the adequacy and accuracy of the Draft MFPA/EIS or the merits of the alternatives or both. The responses are presented adjacent to the comments in each letter beginning on page 19.

TABLE 4
SCOPING ACTIVITIES

Method of Contact	Date	Location
Federal Register Notice	6/25/81	
Public Meetings:	7/21/81	Portales
actives at the last terms of t	7/21/81	Clovis
	7/22/81	Tucumcari
	7/22/81	Santa Rosa
	7/23/81	Fort Sumner
	7/27/81	Roswell
	7/28/81	Carrizozo
	7/31/81	Ruidoso
Meetings:	., ., .	
Southeastern NM Grazing Association	8/12/81	Roswell
District Grazing Advisory Board	8/19/81	Roswell
Advisory Council	10/7/81	Roswell
General Public	10/1/82	Roswell
Federal Register Notice	3/10/83	
Request for Public Comment - letter	3/14/83	
Meetings:		
General Public	3/30/83	Roswell
Southeastern NM Grazing Association	4/18/83	Roswell
Advisory Council	5/12/83	Roswell
Planning Update - letter	7/27/83	
District Grazing Advisory Board	8/23/83	Roswell

#### Public Hearings on the Draft MFPA/EIS

Two public hearings were held on the Draft MFPA/EIS in Roswell on June 15, 1984. Four individuals testified at the afternoon hearing; no comments were received at the evening session. Testimony received at the hearing and BLMs responses to the comments are presented beginning on page 50. Complete transcripts are available for public review at the Roswell District Office, 1717 W. Second Street, Roswell, New Mexico.

TABLE 5
COMMENT LETTERS RECEIVED

NUMBE	R	RECEIVED FROM
1		NM State Engineer Office
2		NM Office of Cultural Affairs
3		US Federal Aviation Administration
2 3 4		Wildlife Management Institute
5*		USDI Bureau of Mines
6		NM Natural History Institute
7		NM Wildlife Federation
8*		USDI National Park Service, Southwest Region
9		NM Department of Agriculture
10		SENM Charing Accomination: NM Cattle groups
10		SENM Grazing Association; NM Cattlegrowers
		Association; NM Public Land Council;
		Roswell District Grazing Advisory Board
	Comments Received after	the 90-day Official Comment Period
1]*		US Fish and Wildlife Service
12		Wildlife, Range, and Water Management, Inc.
13		USDA Soil Conservation Service
14*		
14^		US Environmental Protection Agency

<sup>\*</sup> Indicates letters not requiring a response.

TABLE 6
PUBLIC HEARINGS SPEAKERS

NAME	AGENCY OR ORGANIZATION REPRESENTED
John M. Fowler	New Mexico State University- Range Improvement Task Force
Bud Eppers	Southeastern New Mexico Grazing Association; New Mexico Cattle Growers; New Mexico Public Land Council; New Mexico Wool Growers, Inc.; Roswell District Grazing Advisory Board
Thor Stephenson	New Mexico Department of Agriculture
Bill Ball	New Mexico Soil and Water Conservation District

#### ROSWELL RESOURCE AREA DRAFT MFPA-EIS

#### MAILING LIST

Congressional Offices and NM State Legislators

US Senator Jeff Bingaman

US Senator Pete Domenici

US Congressman Joe Skeen

US Congressman Manuel Lujan, Jr.

State Senator Joe Gant

State Senator Timothy Jennings

State Senator Bud H. Hebert

State Representative Robert B. Corn

State Representative Tandy L. Hunt

State Representative Richard Knowles

State Representative Marvin B. "Mickey" McGuire

Federal Agencies
Department of Agriculture
Agricultural Stabilization
& Conservation Service
Lincoln National Forest
Soil Conservation Service
Department of the Army

Corps of Engineers
Department of the Interior
Bureau of Indian Affairs
Bureau of Land Management
Bureau of Mines
Bureau of Reclamation
National Park Service

Carlsbad Caverns & Guadalupe Mountains
National Park

Fish and Wildlife Service Environmental Protection Agency Office of Public Awareness

State Agencies Crop & Livestock Reporting Board Department of Agriculture, Dr. Wm. Stephens, Director Department of Finance & Administration Department of Game & Fish Eastern Plains Council of Governors Environmental Improvement Division, Dist. 4 Governor's Office Highway Department Historical Preservation Bureau Land Office, Jim Baca, Commissioner Museum of NM Laboratory of Anthropology Oil Conservation Division Parks Commission Soil and Conservation Commission State Engineer State Planning Office

County Offices
Chaves
Curry
Eddy
DeBaca
Lea
Lincoln
Roosevelt
Quay

Guadalupe

Water Resources Division, Dist. 2

Lincoln
Roosevelt
Quay
Libraries
ENMU
ENMU-R
NMSU

City Offices
Carlsbad
Clovis
Eunice
Jal
Portales
Roswell
Tucumcari
Town of Tatum
Village of Ft. Sumner, Inc.

Non-Government Aubrey S. Johnson Carlsbad Sportsmens Club Central NM Audubon Society Chaves County Wildlife Federation Dr. Katherine A. Green-Hammond Environmental Impact Services Envionmental Managment Services Company Federal Land Bank of Roswell Gulf Oil Corporation Lea County Wildlife Federation Middle Rio Grande Conservation District National Council of Public Land Uses Natural Resources Defense Council Nature Conservancy New Mexico Beef Council, Rick Shaw New Mexico Wildlife Federation New Mexico Farm and Livestock Bureau New Mexico Field Office, The Nature Conservancy New Mexico Natural History Institute New Mexico Public Lands Council
New Mexico Rural Water Users Association, Inc. New Mexico Stockman, Editor New Mexico WoolGrowers, Inc. Public Lands Council, National Cattlemen's Assn. Public Lands Institute Public Service Company of New Mexico Southeast New Mexico Grazing Association Southeast New Mexico Audubon Society Southwestern Public Service Company Sierra Club, Rio Grande Chapter Society for Range Management The Outdoor Reporter, Editor Tom Arrandale Dr. Sam Beasom Wildlife Management Institute

New Mexico State University,
College of Agriculture and Home Economics
Dr. Arnold Nelson, Department of Animal
and Range Science
Dr. Charles A. Davis, Department of Fishery
and Wildlife Science
Dr. James, E. Knight, Cooperative Extension Service
Dr. Jerry G. Schickedanz, Range Improvement
Task Force
Texas Tech University, Dept of Range & Wildlife Management

Universities

#### ROSWELL RESOURCE AREA DRAFT MFPA-EIS MAILING LIST (continued)

### District Advisory Council/ Grazing Advisory Boards

Armstrong, Robert G.
Atkinson, Herb
Bail, Wm. J
Berry, Daniei C.
Byrd, James L.
Corn, Bronson
Draper, Mark
Eppers, Bud
Greenwoods, Hart M.
Hamill, Gene
Treat, W.C.
Walls, James R.
Watts, Marvin L.
Watts, Sonny
Wood, Jerry E.

Ranch Operators Adams, Clarence Anderson, Michaei Armstrong, Robert G. Armstrong, G. G Arroyo Seco, Inc. Atkins, Hubert Avants, Alma
Ball, William J.
Bar W Ranch, Inc.
Bedford, H. G Benedict, E. N. Bird Ranch Blackwell, E. Clyde Blakey, Bill B. Block Dot Ranch, Inc. Bond, E. T. Dimmitt Brady, Mrs. W. H. Brassell Brothers Brown, Dale W. Brown, B. L. & R. C. Bryan, Edward O. Burguette Bros. Byrd, Bob H. Byrd, Sueiena Campos, Emerenciano Campos, Pelagio Carruthers, Odell Casarez, Rosendo Chavez, Ernesto Chavez, Manuel Sr. Chavez, Paul M. Chesser Ranch, Inc. Childress Ranch Circle F Ranch, Co. Cliett, James Connell Ranches, Inc. Cooper, Mrs. Joyce M. Cooper, Thomas S.

Cordova, Amelia K.

Ranch Operators
Corn, Bronson
Corn Brothers Trust
Corn, Fred B. & Sons
Corn, Herbert
Corn, James
Corn, Mike W.
Corn, Poe Est.
Corn, Ruth
Corn, Tom
Corn, W. H. Est.
Cortese, Joe
Crenshaw, Robert
Danlels, J.W. Est.
Davidson, Jack Jr.
Davis, A. E. Sr.
Davis, H. H.
Dean, Charles & Betty

Diamond A Cattle Co. Diamond L Ranch, Inc. Draper, Mark R. Dunlap, Tom Edgar, William J. El Yeso Ranch Co. Eidridge, Grady Elliott, Helen N. Eppers, H. W., Jr. Erramouspe, Inc. Ewart, James P. Fen Met Co. Fiores, Alfredo Fresquez, Lutario Garcia, Jose M. Est. Gates, Albert Gibbons, J. P. Trust Gist, Fred & Velma Glass, David Glenn, William E. Gnatowski, A. W. Gomez, Marie Pacheco Good Ranch Trust

Gooding Ranch Gunter, Roy Jr..

Harkey, Howard Harkey, Jack N. Helms, A. D.

Hisel, Don L. Hnulik, Ellis Horney, Zola G.

Gutierrez, Annie Est Hage and Webb Land

Hall-Gnatowski, inc.

Henderson, Matthew

Hendricks, Wilda K. Hicks, John L. Henry, Clifford C.

Hightower Land & Cattle

Hindi Sheep & Cattle

Hornsby Land & Cattle Hunt, Clay Jackson, Leland C. Jackson, Carroll Est. Johnson, B. A. Est. Johnson, Carl Johnson, S. P. Jr. Johnson, W. F. Estate Jones, Preston Kelly, Kap Key, Marvin Killough, Alan Joe A Knight, Thomas A. Leftwich, J. R. Est. Liakos, William G Lietzman, Robert W. Lopez, Julian Loveiace, W. R. Lucero, Benerito Lynch, Gary Marley, Clyde and Robert Marley Ranches, Ltd. Marley, William T. F. Marieys Gallo Ranch. Martin, Jerry Don Martinez, Solomon P. McBrayer, A. J. McCabe, Silas McCall, Hobby McCan, Mike McCarty, William G. McDaniel, W. W. Est. McDonald, Laura Est. McInnes & Fuchs McKnight, Douglas McKnight, Joe W. McKnight, J. P. McKnight, W. D. McLean, Mrs. Ella S. McNally, Inc. McTeigue, Jimmy Mendioia, Peter Merritt, J. L. Merritt, Ronald L. Metcalf, L. E. Est. Miles - Langenegger Miller, Bertha C. Mitchell, Tom Moats, Betty Jean Mooney, F. Olin Sr. Morris, Leon Nalda, John Newton, Doyle Northcutt, Elmer Nunez, R. C. One Hundred Ranch Overton, Tyne E.

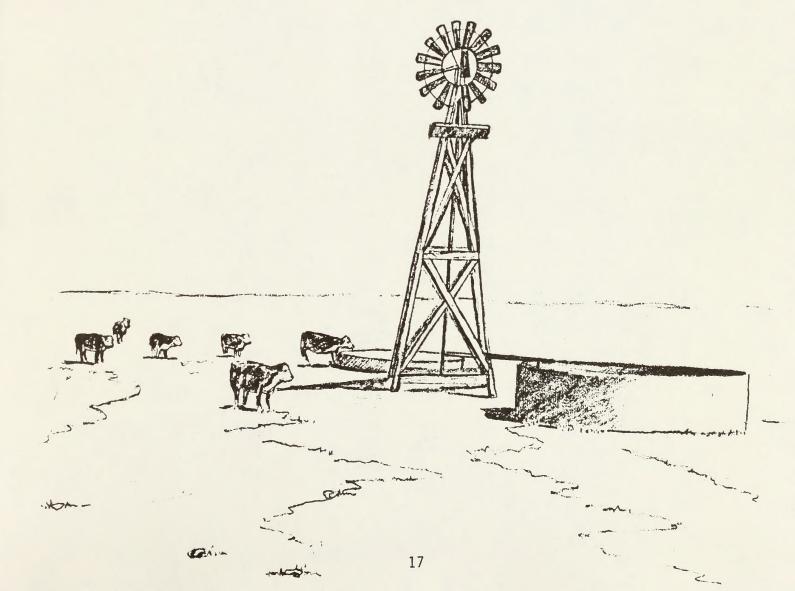
Ranch Operators

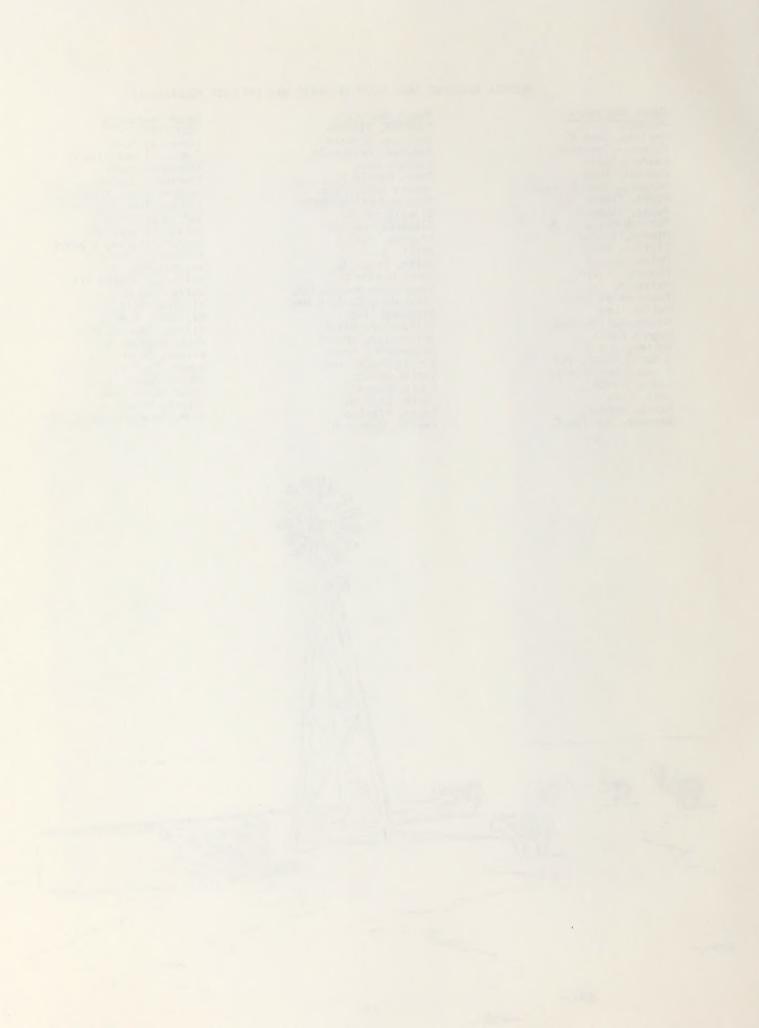
#### ROSWELL RESOURCE AREA DRAFT MFPA-EIS MAILING LIST (Continued)

Ranch Operators Pacheco, L. A. Padilla, Jose F. Parker - Townsend Pastura Ranch Peacock, Ruben
Pendery, Mrs. Clinton
Perez, Eugene Jr. Perez, Raymond Perschbacher, J. A. Pierce, Truman Pittman, Bobby L. Price, George Procter, Floyd Rafter X, Inc. Ramon Perez Ranch Reilly, Ltd. Roadrunner Ranches Rogers Ranch Roller, Grace S Bar J Ranch, Inc S and S Corporation Sacra, Glaze Saiz, Luis Salas, Danney Sanchez, Abelino E.

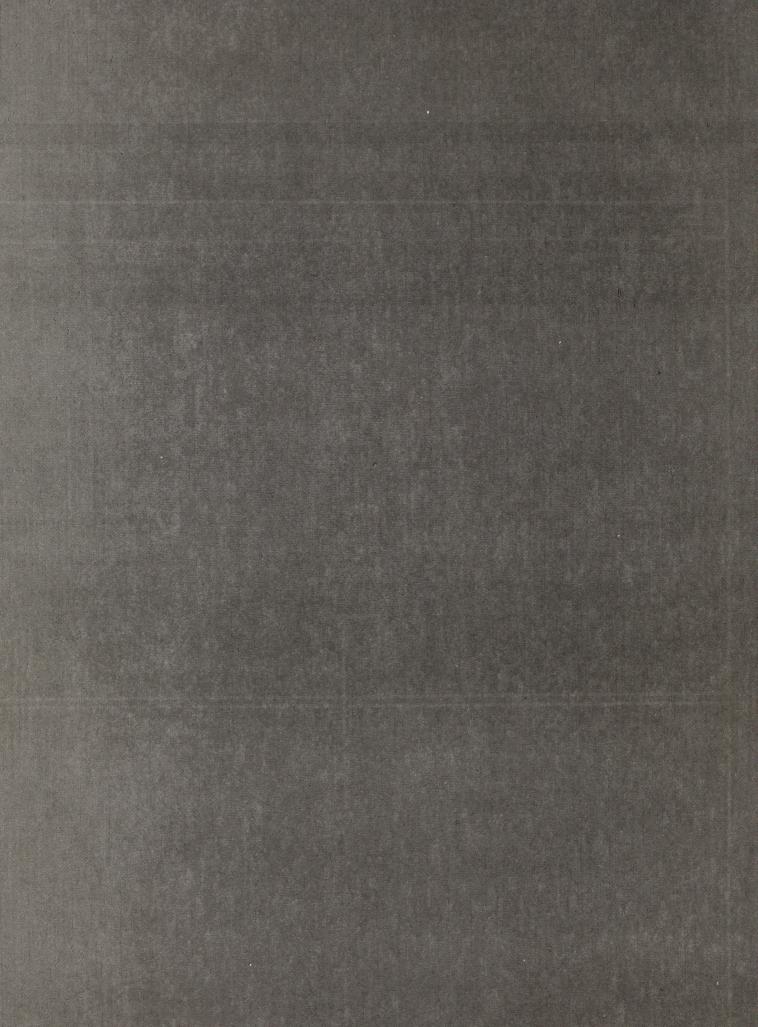
Ranch Operators
Sanchez, Alfredo
Sanchez, Arsenio
Sanchez, Felipe Jr.
Sawyer, Fern
Sena, Martin T.
Shanks Bros., Inc.
Shrecengost, Margaret
Sidwell, G. B.
Sisneros, George
Slayton, Paul
Smith, A. D.
Smith, Frank J.
Spool Cattle Co.
Stephenson Ranch, Inc.
Stevenson, C. A. & Max
Studdard, Jack
Sultemeler, Clint
Sultemeler, Ernest
Sultemeler, Frank
T - 7S Ranch, Inc.
Tapla, Arturo
Tapla, Edmundo
Tapla, Elindo
Tapla, Placido
Taylor, Bennie R.

Ranch Operators Teel, Fred Thompson, M. G. Thompson, Melville D. Townsend, Henry
Townsend, Gayland
Tucker, Finus Trust Tucker, Thomas E. Van Eaton, Fred Vaughn Enterprises Wagner, Charles & Betty Washburn, Lorena W. Whipple, Ray A. White, J. Phelps III White, Joe H. Wiggins, Bill Williams, S.S. Wilson, Charles P. Winn, Madison A. Withers Ranch Womer, Paul E. Woodys Acres, Inc. X-Bar Ranch, Inc. Yrlart, Robert M. Z. R. Hereford Ranch





#### COMMENTS AND RESPONSES





RESEIVED

RESEIVED

STATE OF NEW MEXICODIS. TO SHE

STATE ENGINEER OFFICE SANTA FE

May 1, 1984

S E REYNOLDS STATE BACHER

BATAAN MEMORIAL BUILDING STATE CAPTOL SANTA FE NEW MEXICO 87503

> Mr. Earl R. Cunningham District Manager Bureau of Land Management Post Office Drawer 1857 Rosvell, New Mexico 8820:

Dear Mr. Oumingham:

With your letter of April 20, 1984, you enclosed for review and comment a copy of the Draft Management Frame Work Plan Amendment/Environmental Impact Statement for the Roswell Resource Area. We have only one comment.

Map D-d titled "Declared Underground Water Basins" should be modified to include the Tucurcari Underground Water Basin. A map of the current Declared Underground Water Basins is attached.

Map D-d has been modified as recommended. See page 70.

Sincerely,

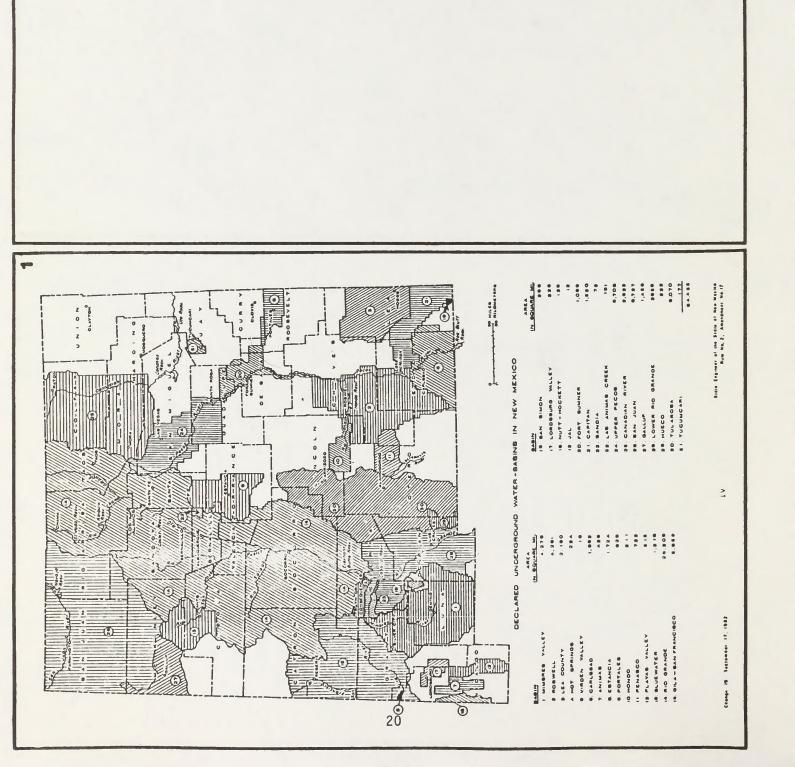
S. E. Reynolds State Engineer

By

Fluid L. Martinez, Chief Technical Division

> FIM\* pat Attachment

cc: SEO Roswell District Office



#### OFFICE OF CULTURAL AFFAIRS STATE OF NEW MEXICO

HISTORIC PRESERVATION DIVISION

VILLA RIVERA, ROOM 101 228 EAST PALACE AVENUE SANTA FE, NEW MEXICO 87503

THOMAS W. MERLAN (505) 827-8320

TONEY ANAYA

CULTURAL AFFAIRS OFFICER JILL Z. COOPER

May 21, 1984

Ô MAY 24

Dear Mr. Cunningham:

Roswell, NM 88201

P.O. Drawer 1857

Bureau of Land Management Roswell Resource Area

Mr. Earl Cunningham

District Manager

Thank you for the opportunity to review the Draft Management Framework Plan Amendment/Environmental Impact Statement for the Roswell Resource Area, dated February 1984, as forwarded in your letter of April 20, 1984. A brief overview of existing cultural resource information for the Roswell Resource Area was provided on pages 2-22 to 2-23 of the draft EIS. I note that the BLM's Class II sample survey of the Abo Gas Field north of Roswell is scheduled for completion in 1984. I look forward to reading the report, and commend BLM for its efforts to synthesize the data available from the often small-scale archaeological inventories in the area, and to amplify this with additional larger-scale survey. The results of this project should further define cultural resource management needs in the resource area.

procedures for surface-disturbing activities will call for prior cultural resource inventory, evaluation, and avoidance or mitigation of adverse impacts, indicated on pages 1-19, if impacts are unavoidable, BLM will consult with this office to develop appropriate mitigating measures. In the final EIS, BLM should indicate the legal and regulatory basis for these compliance procedures (the National Historic Preservation Act of 1966 as amended and implementing regulations including 36 CFR 800, BLM Procedural Manual 8111, and the statewide Programmatic Memorandum of Agreement (PMOA) between this The draft EIS outlines several alternative resource management proposals, and provides a reasonable analysis of the varied impacts which may be anticipated to cultural rescurces. I note on pages 1-19 that BLM's standard operating office, BLM, and the Advisory Council on Historic Preservation (NMSO-168), indicating agency intent to comply with such regulations and procedures. As noted in the draft document, several range management procedures such as brush control, have the potential to impact cultural resources. Under some circumstances, use of chemical herbicides may also contaminate radiocarbon

Mr. Earl Cunningham May 21, 1984 Page Two dating samples. However, the EIS indicates that such contamination may be removed during laboratory analysis if the archaeologist and radiocarbon laboratory are notified of the potential contamination. BLM's proposal to include such notification as standard procedure for excavation permit issuance for sites on previously-sprayed areas appears to be an appropriate and prudent measure. However, the final EIS should include a letter from a radiocarbon laboratory indicating whether any additional measures may be needed to compensate for possible contamination. Otherwise, there is risk of losing valuable chronometric information in the area where there are few other temporal indicators.

Regarding impacts which may be associated with controlled burns, the EIS indicates that areas along draws may receive particular impacts from fire suppression, and that prior archaeological inventory may be needed. It should be noted that such fire-planning activities are subject to standard consultation procedures pursuant to possibility of charcoal contamination and increased site erosion as impacts which may be associated with controlled burns. In its range management procedures, BLM might also consider nominating some of the more significant properties in the resource area to the National Register of Historic Places, in accordance with the federal responsibilities established in Section 110 of the National Historic Preservation Act as amended.

I appreciate the opportunity to review the draft ElS, and look forward to seeing the final document. If you have any questions, please do not hesitate to call.

Sincerely,

DE WAL

Thomas W. Merlan State Historic Preservation Officer

IW M/NEW /bc

The Las Cruces/Lordsburg EIS was used as a reference for the section on the impacts of chemical brush control on cultural resources and for the standard operating procedures (See page 3-24 of the Draft).

Controlled burns are used to control the growth of alkali-sacaton, a grass which tends to grow in alluvial deposits. Because of the alluvial nature of the areas that will be burned, the occurence of an archeological site on the surface is not a strong possibility. Most likely, it would have been buried by the alluvial deposits. Therefore, there is only a slight possibility of charcoal contamination from the controlled burns.

As stated in the soils section (See page 3-70 of the Draft) there is a possibility of increased runoff after a controlled burn. However, since storms producing runoff are not common during the preferred times of treatment, increased erosion is not a strong posibility.

US Department of Transportation

Federal Aviation Administration

2930 Yale, SE., Room 109A AIRPORTS DISTRICT OFFICE Albuquerque, NM 87106

9

14 JUN 1984

Bureau of Land Management Mr. Earl Cunningham Roewell, NM 88201 P. 0. Drawer 1857 Dietrict Manager

Dear Mr. Cunningham:

request of Secretary of Interior Clark, we are preparing to undertake an environmental assessment of such an airport on Site B which involves We have reviewed your draft report entitled "Management Framework Plan Anendment/Environmental Impact Statement - Roswell Resource Area," and find no mention of the potential use of a portion of the Fort Stanton property as a site for the proposed Sierra Blanca Airport. At the a portion of the Fort Stanton property.

the assessment. We look forward to working with you on this project, Therefore, we request that you defer any actione on management of property which would be impacted by auch an airport pending the Noomphetion of the environmental aeseement. Appropriate Department of Interior offices will be actively involved in the preparation of

The MFPA/EIS includes no proposed actions which would affect or impede the potential development of any facilities at the Ft. Stanton Agricultural Experiment Station.

Sincerely,

Manager, Airporte Dietrict Office BILL J. HOWARD



Edward Warren Fit i American Alott



# Wildlife Management Institute

Suite 725, 1101 14th Street, N.W., Washington, D.C. 20005 • 202/371-1808

DANIEL A. POOLE
Pesdent
I. R. JAHN
Vice Pesdent
I. I. WILLIAMSON
I. I. WILLIAMSON
WESLEY M. DIXON, Jr.
Board Charman

June 27, 1984

Ms. Linda S. C. Rundell EIS Team Leader Bureau of Land Management Roswell Resource Area Roswell, New Mexico 88201

P.O. Drawer 1857

Dear Ms. Rundell:

The Wildlife Management Institute is pleased to comment on DRAFT MANAGEMENT FRAMEWORK PLAN AMENDMENT ENVIRONMENTAL IMPACT STATEMENT, ROSWELL RESOURCE AREA, New Mexico.

The titles of the alternatives are confusing. The alternative believed and "Proposed Action" is only the present situation and is for comparison with other alternatives. The "District Preferred Alternative" is really the proposed action.

We prefer the decreased livestock grazing alternative. It provides almost as much wildlife benefit as the DPA, but has none of the expense of

range improvements and land treatment.

While deer and antelope percentages show a high percentage increase from the present situation, the populations are low and we really talk about only 218 more deer and 146 more antelope with an expenditure of nearly a million dollars. We think grazing reductions on the poor lands as described in the Decreased Grazing Alternative is in keeping with national goals to reduce the deficit. Otherwise the ranchers will receive a greatly increased subsidy (from range improvements) paid for by all the citizens of the country.

The statement is made that all proposed developments are cost efficient. We do not agree. We were unable to locate any mention of the cost of proposed development. However, page C-8 lists costs per mile, acre, etc. We used those to compute what the proposed developments will cost.

It is difficult to reconcile exact costs of proposed range improvements, because precise figures are not given on page C-8 for water developments. The range is \$700 for water location (tub) and \$9,000 for water storage. Based on those extremes, the cost could range from \$902,449 to \$1,217,894. This does

The Proposed Action (PA) alternative was labeled in compilance with Washington Office Instruction Memorandum 82-650, dated September 3, 1982, which directed that (for all grazing EIS's) initiated during and after FY 1983 the proposed action shall be the continuation of the present management situation based on the permittee's or lessee's active preference, previous year's licensed use, or average actual use.

DEDICATED TO WILDLIFE SINCE 1911

this) and total income for the 7 county area is \$319,715,510. p. 2-27. There is no reason range livestock should dominate land use or be so heavily subsidized. no reason why all should pay to benefit the few when reductions will accomplish Total livestock in the area produces \$10,900,000 (BLM is \$591,000 of Page 3-19, 2nd paragraph. Present livestock use on riparian areas of \$591,000, while recrea-On the resource area, when the allowance programs. They give much power to private ranchers on public lands. We must will not pay 8% annual interest of \$4.16 on even the lesser of these. We aee If an animal unit on BLM is worth \$1,200 la made for depreciation from total sales, returns to operator labor, managecommercial value, what is an AUM worth? Nowhere did we find a discussion of length of grazing season. June 27, 1984 remember New Mexico is the only state where hunters and anglers are required of this is earmarked for 38 improvement allotments giving an average subsidy of either \$23,748 or \$32,048 to each of them. The same thing will would continue under DPA. Much more description of riparian conditions and Page 3-2, #11. We are concerned about any cooperative management to pay (through New Mexico Game and Fish Department) for use of state lands to avoid a lock up of these lands by livestock lessees. The same thing will The improvements and treatment will create 17,372 new AUM. These The annual grazing fee of \$1.37 per AUM ment and capital is reduced to a total net income of minus \$1.5 million. These remarks have been coordinated with William B. Morse, the tried on federal lands unless a strict federal control is maintained not include 153,820 acres of oak control or a 650 acre controlled burn. p. 3-8 greatly improved riparian management program are needed. Daniel A. Poole The BLM range creates 195 jobs and income tion in the same area presently produces \$759,273. Sincerely President -2-Page 2-30, 3rd paragraph. Institute's Western Representative. Specific comments follow: will cost either \$52 or \$70 each. Ms. Linda S. C. Rundell much the same ends. DAP: msm

•2 ,he \$1.37 grazing fee is per Animal Unit Month (AUM); annual grazing fees are computed on the number of months used, for example: I cow yearlong = \$1.37 x 12 months or \$16.44 annually. Federal regulations direct that 50 percent of all monies received as fees for grazing shall be made available for the purpose of on-the-ground range rehabilitation, protection, and improvements (P.L. 94-579).

One Animal Unit (AU) is equivalent to 12 AUMs; the "commercial" value of one AUM (in the WFPA/EIS area) is approximately \$100.00.
Livestock grazing in the Roswell Resource Area is generally on a yearlong basis (see page 1-15 of the DEIS).

4 .4 Page 2-30 of the DEIS has been corrected from minus \$1.5 million to \$1.5 million.

As discussed on page 2-12 of the Draft, existing data shows riparian habitat to be in fair to good ecological condition. A more intensive inventory and evaluation of riparian systems is in progress. Three areas have been excluded from livestock grazing. Other areas will be assessed for protection as described under the SOP on page 6 of the



### United States Department of the Interior

**BUREAU OF MINES** 

BUILDING 20, DENVER FEDERAL CENTER DENVER, COLORADO 80225

Intermountain Field Operations Center

July 3, 1984

Memorandum

Phil Kirk, District Manager, Roswell Resource Area, Bureau of Land Management, P.O. Drawer 1857, Roswell, New Mexico 88201 To:

Chief, Intermountain Field Operations Center From

Review of the Draft Management Framework Plan Amendment Environmental Impact Statement on Rangeland Management in the Roswell Resource Area, New Mexico Subject:

The Bureau of Mines primary incerest is the effect a project such as this may have on the mineral resources in the area. Because the proposed action is the continuation of cyrrent management practices (no action) the Bureau has no comment on the document as presented.

Donald P. Blosko

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### NEW MEXICO NATURAL HISTORY INSTITUTE

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Santa Fe. New Mexico 87501 St. John's College Campus

LAND AT

4 July 1984

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Comments MFP Amend

Poswell, New Mexico 88201 Phil Kirk, Area Manager Roswell Resource Area F.O. Drawer 1857

Dear Fr. Kirk:

claim (DEIS p. 1 and elsewhere) that only 2% of the rangeland is in boor condition. In 1979, when we looked over possible sites for a rassland wilderness or natural area in the Posswell Resource Area, we found snakeweed and fluffarass. On plains west of the Pecos we could find no roadless area in the Bureau's inventory that had anything like natural shorterass communities. A century of livestock grazing--high stocking level and unnatural in timing--has changed the landscape Astonishment is a same ecologist's only possible response to your from that described by early travelers. natural

lands in southeastern New Mexico. Where in the preferred alternatives other roals in order to work toward that primeval condition. But in our opinion the "preferred" alternatives--FA, DPA, and IPA--are timid, do-nothing responses to snakeweed's conquest of the Bureau's shortgrass The Bureau is not the Park Service and cannot be expected to chuck

1) larre-scale time-controlled grazing trials ("Savory method" and its variants)?; there proposals for

2) large-scale reservations of rangeland for temporary no-grazing or occasional intense-but-brief grazing, each to be followed by fire when litter accumulation permits?;

other real attempts to get the shortgrasses back -- not just the temporary shift that herbicides will give? Judged by such proals, only the Decreased Livestock Grazing (DLG) plan shows any uts. But mere decreases won't do much in a rancher's life-time: active chemical or fire control of brush; followed by seeding in the worst areas, is called for, in addition to an immediate drop in stocking levels to well within the land's carrying capacity.

But now may be a less bad time than others: some of those ranches are losing money already, even when supported by government forage at 1/3The disadvantare of our proposals is of course cost.-fewer head on the land for years, plus active manarement costs. Worst are the social costs: there are allotments that should aco out of business for now. But now may be a less bad time than others: market price and by other subsidies.

Well, the Bureau has never tried to restore grassland on the scale that we promose above, and perhaps can't do so in today's political climate. Let me smift to a more rodest proposal related to this institute's roals and to the basic law governing Bureau operations.

does any other public agency anywhere. For base-line rangeland data as than The Moswell District manages far wore Southern Plains Grassland

representative sample of our range condition inventory on 135,000 acres indicates that 83 percent of the total vegetation found on 10 species as snakeweed and fluffgrass does not necessarily indicate poor range condition. Range condition studies completed in 1982 indicated that 2% of the rangeland was in poor condition. These vegetation. "I" category allotments for the most part have much lower percentages of desirable shortgrass and therefore have been given priority for improvement practices in the proposed plan. Draft) indicates the percent of vegetation which is present in a range site as compared to its potential. The presence of such findings will be verified during the ongoing monitoring process. The ecological condition classes presented (see page 2-4 of the "M" Category allotments is made up of desirable shortgrass 6.1

alternative; page 1-13, last paragraph, discussed grazing programs as a component of the MAX alternative; page 1-18, under <u>Grazing Programs</u> line 9, "Development of individual plans would not be <u>done until</u> See page 1-9, 1-12, 1-15 of the Draft under the PA, "Existing active AMPs would be maintained ...;" currently four high-intensity-short AMPs would be maintained ...;" currently four high-intensity-short duration grazing systems ("Savory Grazing Method" or derivative) are being implemented in the RRA; page 1-10, under the DPA, the fifth paragraph discusses grazing programs as one component of the after the filling of the EIS .... 6.2

grassland which is not available for livestock use. Grazing programs, as discussed in 6-2, can include deferred, rest-rotation systems or high-intensity short-duration. Other than the prescribed burning of sacaton or tobosa swales, the fire management program in the RRA consists of suppression of natural-caused range fires. The Ft. Stanton Natural Area contains 3500 acres of mountain

actions described under each alternative, which would include, but is not limited to, the use of herbicides. Past studies have shown that grazing systems alone or the exclusion of livestock will not return a brush-invaded area back to a grassland state. The use of herbicides will bring about the initial change back to native grassland. Grazing systems will be used to help prevent the re-infestation of Projected changes in ecological condition classes (see Tables 3-3, 3-11, 3-23, 3-33, 3-43, 3-54) reflect improvement or deterioration of the acreage in that class. These changes would result from the

No veretawell as for scientific and wildlife purposes this vast, once-rich ecosystem should have some protected acreame. So far you have fenced about 90 acres of shinnery as a natural area and a few thousand acres of shinnery sand dume for prairie chickens and hikers (and drill pads, pipelines, and other intrusions)--less than If of your lands. No shortaress preirie is protected, though that is your principal

Aster neomexicanus, Cryptantha Laysonii, Erlozonum jamesii var. wootonii, Suraorbia strictior, and Tetradvnia filifolia, Which are known on or near Sureau Lands in the RAJ. Ecosystems-the only real basis of natural biological values--are irnored as units for protection of natural values. Yet FLLMA mandates protection of scientific, scenic, and ecolorical values (P.T. 94-579, Sec. 102(a)(B)). Bureau policy too, for instance as expressed in 1979's Manazine the Public Pankelands, commits you to serving the natural (as well as other) values. I find no sign that serving the DEIS are aware of this law and policy, except for Particular, minor instances such as endangered species (and even here they omit most, for instance black-tailed prairle dog and the plants

We propose that these leral requirements might be met by reservation of 10s of the Resource Area lands for natural areas, wilderness, and special habitat-management areas (such as the present prairie chicken exclosures). At least one larre--20,000-acre?--shortgrass area should be reserved, in suitable pronghorn habitat, probably northwest of Poswell. Fire (but not chemicals) should be one of the management tools in such an area, which would therefore provide valuable data for management elsewhere: especially data on plant succession and range recovery rates. We think that (arven relief from livestock) fire can be used in rates.

We urge that natural areas be incorporated into the MPP, in conformity with Bureau policy and with FLFMA's requirement that ecological values ---for instance of Southern Plains Grassland--be preserved for scientific rurroses.

S. Peterson Sincerely. Secretary

Appendix E-3 displays 71 endangered, threatened, or sensitive species considered in the Draft, requests and responses to and from the USFWS, NMOGEF, and the NMSHP for 11sts of Species to considered. The Tularosa black tailed prairite dog (Cynomys ludovicianus), panhandle euphorbia (Euphorbia strictior), and Tetradymia Filifolia were considered in the document but received "no-effect" determinations. The BLM is aware of Aster neomexicanus, Cryptantha paysonii, and Eriogonum jamesii var. Wootonii as they appear in "A Handbook of Rare and Endemic Plants of New Mexico" and will consider them during any environmental assessment process. 9.2

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### NEW MEXICO WILDLIFE FEDERATIONENED

ALBUQUERQUE NEW MEXICO 87108
TELEPHONE (505) 255 3722
TALEPHONE (505) 255 3722
TALE (504) 55 1984

BLM Roswell Resource Area p.O. Drawer 1857 Roswell, New Mexico 88201 Attention: Earl Cunningham, District Manager

Subject: Draft Mgmt. Framework Plan Amendment-Roswell Resource Area

Dear Mr. Cunningham:

The New Mexico Wildlife Federation has reviewed the draft, and recommends the Decreased Livestock Grazing Alternative (DLC). We add this proviso: that grazing be eliminated altogether from riparian areas. Access for stock watering would be provided, but would be strictly limited.

As discussed on page 2-12 of the Draft, existing data shows riparian habitat to be in fair to good ecological condition. A more intensive inventory and evaluation of riparian systems is in progress. Three areas have been excluded from livestock grazing. Other areas will be assessed for protection as described under the SOP on page 6.

From the information presented it is plain that BLM lands grazing contributes only in a minor way to the economics of the Roswell resource area. The decreased livestock grazing alternative offers the best balance in upgrading lands and supporting more wildlife, with least impact on the livestock industry. We absolutely cannot support the maximum forage production alternative (MAX).

We submit further comments on the six alternatives:

- 1) Recreation plans and budgets are practically nonexistant in all six plans. Page 2-23 lists only one developed recreation area in the entire l 1/2 million acres, yet recreation and hunting generates some 800 thousand dollars annual income in the RRA.
- 2) Funding for wildlife is extremely low in all six alternatives.
- 3) We fail to see how eradication of sand shinnery oak can possibly benefit wildlife. We could support a program of reduced shinnery growth if it resulted in increased vegetative diversity.
- 4) The \$800,000 figure for recreational revenue seems low. You have accounted for big game hunting as well as quall and duck hunting, but camping, hiking, picnicking, birdwatching, swimming, boating, fishing, trapping, coyote calling, etc. would inflate this figure.

.

It is not the intention of the BLM to eradicate shinnery oak, but to reduce it to 20 to 30 percent of vegetative composition. The effects on wildlife from shinnery oak control are discussed on pages 3-20, 3-21, 3-22, and 3-23 of the Draft.

-2-

In conclusion I would like to say that we are disappointed with the BLM plans for wildlife habitat improvement. After all, the BLM across the West spends more than twice as much on range management as it takes in from grazing fees. We are reminded by your report that "range improvement benefits wildlife". Is it not equally true that managing for wildlife would benefit grazing? In view of the economic figures presented some parts of the area might show a much larger cash return if managed to favor wildlife.

Sincerely,

The V. Just to Lee Quitberg President

LQ: bc



United States Department of the Interior NATIONAL PARK SERVICE

SOUTHWEST REGION SE P.O. BOX 728 SARIA Fe, New Mexico 87501

L7619(SWR-PE)

IN REPLY REFER TO

JUL 12 1984

Nemorandum

To: District Manager, Bureau of Land Management, Roswell Resource Area, Roswell, New Mexico

From: Associate Regional Director, Planning and Cultural Resources, Southwest Region

Subject: Review of Draft Management Framework Plan Amendment/Environmental Impact Statement for the Roswell Resource Area, New Mexico (DES 84/22)

We have reviewed the subject document and find that it adequately addresses

the concerns of this agency.

And Bays

NEW MEXICO DEPARTMENT OF AGRICULTURE

OFFICE OF THE OIRECTOR Box 3189/Las Cruces, New Mexico 88/J03 Telephore (505) 646-3007

July 13, 1984

03.18 RUN

Ms. Linda S. C. Rundell EIS Team Leader Bureau of Land Management Dowell Resource Area P.O. Draver 1857 Rosvell, New Mexico 8820

Dear Me. Rundell:

JUL 191984

CONTROL OF THE PARTY OF THE PAR

This letter is to serve as officiel chamment on the Roswell Resource Area (RRA) Dreft Manegement Framework Plan Amechant Environmental Impact Statement (DEIS). We helieve the Bureeu is to be commended on certain aspects. Most of the document with which we ere primarily concerned is concise, well written and esally reed.

The Bureau's inclusion and analysis of the livestock industry initiated elternative (the IPA) is also worthy of note. We believe thet with some exceptions, the Bureau's analysis of this alternative wes concise, feir and objective. This is the first grazing DEIS we heve reviewed that has included an alternative prepared and submitted by livestock interests. We also found it increasing to oote that the District Prefarred Alternative (DPA) developed by the BIM is remarkably similar to the Industry Prefarred Alternative. The major differences being the development of cooperative management plans under the DPA and an assumption used by the BLM for soelyses of the IPA.

We believe the assumption used by the Bureau io acalyzing the IPA's effect on the vegeterion resources is flewed. On page 3-30 it is stated, "Without the benefit of proper graziog management, improvement would he slight," and on page 3-2, "Vegeterion treds would remain relatively unchanged on areas where no greziog programs would he implemented." This assumes that management conducted by the permittees would he inferior to thet imposed by the Bureau under the IPA.

The best evideoce this assumption is invalid is provided by the categorization of the grazing ellormects administered by the Rosell Resource Area (vest side). Thirty percept vere pleced to the "H" or maintain category, thus echnowledging the current setisfactory renge coodition of these ellorments. Over 55 perceot of the allotments io the RRA have been placed in the "C" or custodial category, mainly on the heasis of the amount of federal land involved washer than unsetisfactory range cooditions. If these "C" category allotments are removed, of the remaining ellotments, 69 percent are in the "M" category.

The initial range condition ratings indicate that less than satisfactory range conditions exist on the "I" allotments. Under the IPA, no grazing programs would be developed to correct these identified problem areas. By implementation of grazing programs on the "I" allotments, as described in the DPA, it is felt that the problems can be corrected and the area's condition brought to a satisfactory level.

	The BLM recognizes that problem areas still exist within five AMP allotments. Due to budgeting and other constraints, these AMPs have not yet been fully implemented.		BLM will initate, finance, and construct those livestock water sources that replace riparian water areas. Maintenance may be assigned to the permittee or lessee under a cooperative agreement.	The Draft MFPA/EIS does not preclude the development of CMA's. The regulations referred to are currently being challenged in the judicial process. It was deemed not prudent to emphasize the CMA program pending resolution of the challenged items.	The minimum deferment period in all instances will be two growing seasons in consecutive years. A continual 16 month deferment period may be required where determined necessary.	Prescribed burning is proposed on alkali and giant sacaton swales. The objective of this burning is to stimulate plant growth to begin one to three weeks earlier than normal, and to increase use of these swales for 6 months to one year or longer following burning by reducing the amount of coarse, unpatable growth	> 2	Current BLM policy is not to allocate AUMs per se. Rather, the policy emphasizes identification and resolutions of specific conflicts, such as those which may occur between wildlife and domestic livestock.	
Ms. Linds S. C. Rundel. July 13, 1984 Pege 2	The majority of these "M" category allotments do not presently have BLM generated management plans to prescribe grazing use. In fact, only 12 percent of the "M" allotments have plans currently in force. Additionally, 5 of the 16 allotments currently under existing Allotment Manegement Plans have been placed allotments currently under existing Allotment Manegement Plans have been placed and trend is static or declining. These "I" category allotments represent 31 percent of current AMPs. When analyzed on an acreage basis, 61 percent of the total federal acres involved are loceted in "M" category allotments and 51 percent of the tange is rated as being in good or excellent condition. These figures are evidence that emajority of permittees have done an acceptable joh of maneging their own grazing use of federal land without BLM generated plans, contrery to the assumption used in the DEIS.	The following comments and questions refer to specific statements and various technical aspects conteined in the DEIS.	Under Standard Operating Procedures, page 1-19, number 7, it is stated "(w)bare domestic livestock are excluded from riparian ereas alternative water sources would be provided." Who will be responsible for initiating, financing and constructing said alternate water sources?	The final Department of the Interior Grazing Regulations provide for the development of Cooperative Manegement Agreements (CMAs). A discussion of this program should have been included in the standard operating procedures section.	On page 1-19, number 13 states "On spreyed or grubbed areas, livestock would be excluded for e minimum of 2 consecutive growing seasons." We agree that growing season deferment following vegetetive manipulations is varranted to maximize benefits due to the treatment. However, benefits due to dorment season deferment are not well documented. Would grazing deferment also be required for two dormant seasons, or	would dormant season grazing he ellowed between two growing season deferments. Additionally, we find it interesting that no deferment period hes been eutomatically included in the cese of prescribed burns. Why is this the case?	According to the DEIS, 4489 AUMs are reserved for wildlife. Current wildlife use amounts to 2604 AUMs leaving an excess of 1885 AUMs for "other uses." Whet constitutes the "other uses" to which these excess AUMs can he epplied? Projected big game population increases are expected to result in an edditional 338 to 448 AUMs used under the Industry Preferred (IPA) and substrict Preferred Alternatives (DPA), respectively, in the long term. We suggest additional big game AUMs resulting from population increases he allocated from the present 1885 AUM surplus in AUMs sallocated to wildlife.	We also believe date regerding wildlife AUM allocation on an allotment basis should heve been included in the DEIS. We suggest another column(s) presenting these data should be added to the tebles in Appendix B.	

SAGERAM values were not used in assessing income and revenue generated by recreational use. This assessment was based on actual expenses. Values in SAGERAM are based on the Willingness-to-pay concept. Reference to SAGERAM in the recreation section and Appendix G has been deleted. Incremental values of recreation are presented See page 1-10 of the Draft; paragraph 4. "... it (shinnery oak control) has been included for analysis in the DPA, although it could be included in the Final Plan under any alternative." G has been deleted. In Appendix G. 8.6 0 O community. As evidence, note the inconsistency of the following statements excerpted from the DEIS. On page 2-27 it is stated "the livestock industry, BlM livestock industry, plus the other livestock industry. comprises e very small part of the totel economy." Whereas, page 3-46 states "eliminating livestock grazing would produce measurable impact to socioeconomic analyses of dollar velues for recreation purposes. While end results ere presented (e.g., total value of deer hunting) no incremental velues such es the dollar value of a hunter-day ere included. This economy when resources have been fully exploited. Therefore, its long-term economic importance seems overstated whereas agribusiness can be perpetual agribusiness toward energy minerels and recreation. While we do not argue this reality, we do believe energy development in the area is probably transitory in nature and will no longer be a vieble portion of the local Chaves eree if the DPA is not selected as the preferred elternative in the record of decision. Since no justification is given for the above quotation, its actual intent is open to interpretation, such as, in order for the control projects to be initiated, east Chaves allottees had batter support the DPA or lose the proposed shinnery control projects. Cheves County using tebuthiuron will be analyzed under this alternative (DPA) only." This etetement has caused us some confusion. Are we correct in assuming that for anelyses purposes the proposed shinnery control would only be presented under this alternative and that impacte analyzed will be similer under other alternatives? If this is not the case, we must assume The income and employment figures presented in Table 2-9, in many cases (for example, construction, prepered feeds, chemicals, rubber and plastic products, machinery, motor vehicles, professional services, real estate, etc.), ere to some degree due to spending by the BLM range livestock and Pege 2-29 presents a discussion of the shift of the RRA economy away from We do not believe it to be realistic or fair to "plan" a reduced egribusiness economic importance in the long term based upon short term realities. There even appears to be some confusion on the pert of the preparer(s) as to the relative economic contribution of the agribusiness Environment section understates the economic importance of the livestock prevents the reviewer from commenting on the adequacy of the values used that no shinnery oak control with tebuthiuron would occur in the east and will remain a viable segment of the RRA economy in the long term. The DEIS stetes on page 3-9, "the impacts of shinnery control in east In our opinion, the socioeconomic analysis presented in the Affected The DEIS refers to the Segeram computer program in discussing the and from checking the accuracy of reported figures. industry to the local economy. other livestock segments. the regional economy." Ms. Linda S. C. Rundell July 13, 1984 Pege 3 Š , 34

The Proposed Action (PA) alternative was labeled in compliance with Washington Office Instruction Memorandum 82-650, dated September 3, 1982, which directed that (for all grazing EIS's) initiated during and after FY 1983 the proposed action shall be the continuation of the present management situation based on the permittee's or lessee's active preference, previous year's licensed use, or average actual **9.10** the DE!S) the BLM would not use any herbicide not authorized for use (labeled) by the USEPA, NMDA, D01, and registered by the USEPA and 9.11 0 Confusion also surrounds the actual intent of any No Action alternative. It implies the BLM would do nothing. Actually, (as we understand it) No Action as used in Ebis context implies the status quo of Bureau activities would remain in place. We believe a brief, concise explanation of what the term No Action actually implies should be included in future documents. it is the Preferred alternative or the planned course of action. The Bureau obviously perceived the confusion this would cause by including the atterment on page 1-9, "the PA is not the preferred alternative." We believe that such a statement would not have been required if the unfortunate choice of calling this alternative the Proposed Action had not but rather the choice of calling it the Proposed Action which implies that Agency or the New Mexico Department of Agriculture. All reference to the use of this chemical for proposed brush control projects should be removed Our final comment applies to the labeling of the No Action alternative as the "Proposed Action." This has caused confusion on the part of some reviewers of During the scoping process one of the alternatives proposed was the No Action alternative. The DRIS has changed the name of this alternative to the Proposed Action. Changing the name of the No Action alternative per se is not the problem As we believe you are aware, the chemical 2,45-T proposed for treating mesquite is no longer registered with the U.S. Environmental Protection the document. There are three primary reasons for this confusion: We appreciate this opportunity to review and comment on the DEIS. Ms. Linda S. C. Rundell July 13, 1984 Page 4 William P. Stephens Sincerely, Director WPS/to 7. 7 ۳.

COMMENTS AND RECOMMENDATIONS

BUD EPPERS

IN BEHALF OF

SOUTHEASTERN NEW MEXICO GRAZING ASSOCIATION ROSWELL DISTRICT GRAZING ADVISORY BOARD NEW MEXICO CATTLEGROWERS ASSOCIATION NEW MEXICO WOOLGROWERS ASSOCIATION NEW MEXICO PUBLIC LANDS COUNCIL

AMENDMENT AND ENVIROMENTAL IMPACT STATEMENT WEST ROSWELL MANAGEMENT FRAMEWORK PLAN

1

We commend the Bureau for compiling this document in a way that it is easier to read and understand than any to date. We feel there are some distinct elements that need correcting and we offer our recommendations so future decision makers have factual information to use.

The Summary portion is extremcly weak in that it does with include the numerous range improvements that presently exist on the Federal public lands. Since before the Taylor Grazing Act became law livestock producers in this area began developement of boundary fences and the establishment of permanent water facilities. The intermingled land patterns and ready availability of Section 4 permits are the major reasons the Federal lands are so highly improved today. These improvements are readily available in the permittees files. The Bureau should apply present day values so the public has files. The Bureau should apply present day values so the public has full knowledge of the sacrifice and contribution of the genertions of ranchers who are responsible for the improvement of the Federal land.

Citing the basically long term stocking rates, exceptional watershed quality conditions and the abundance of game animals and wide variety of wildlife identified in occupancy with the several classes of livestock is a direct result of the numerous permanent water facilities on the existing allotments and the expert management by the permittees'.

Omission of these important facts reduces the value and quality of this EIS. We request the inclusion of this information in the final document.

The Proposed Action alternative is basically the No Action alternative; it should be changed so for any confusion that may exist is clarified. If for no other reason a No Action alternative would be consistent with previously prepared statements.

We are some what suprised in the insignificant differance between the District and Industry alternatives. The only basic difference is the developement of CMP's in the DPA. In recognition of and compliance with Interior Department policy it is

An addition to the summary (page i) has been made to acknowledge the numerous contributions of the rancher to the public lands. The BLM recognizes that the Roswell Resource Area is one of the more highly developed areas in the state with many improvements having been constructed by the livestock operator.

The Proposed Action (PA) alternative was labeled in compliance with Washington Office Instruction Nemorandum 82-650, dated September 3, 1982, which directed that (for all grazing EIS's) initiated during and after FY 1983 the proposed action shall be the continuation of the present management situation based on the permittee's or lessee's active preference, previous year's licensed use, or average actual use.

10.3 The authority and need rur CMPs is stressed in the Federal Land Policy and Management Act and the Final Grazing Management Policy for achieving mulitple use objectives. It is also one of the proposed actions listed in the policy under the categorization process.

more

bewildering that Bureau personnel continue to attempt to impose their ineffective, inefficient management of livestock grazing. Recognizing the illustrations of previous EIS's the majority of AMP or CMP allotments were in less than satisfactory condition, in fact much less than those of the permittee's who had operated with out the intervention of

Of the 16 AMPs, 5 are in the "1" Category, 10 are in the "M" Category and 1 is in the "C" category. The 5 AMPs in the "I" Category have not been fully implemented at this time.

10.4

Costs of developing an AMP-CMP some 5 years ago was about \$40,000 each. Using this figure (probably more costly today do to inflation, etc) taxpayer costs would exceed \$1.5 Million under the D.P.A. today, After 15-20 years of AMP intensive management, are those allotments producing above their icapabilities when they were begun. Most are still awaiting the much needed, often promised, range improvement funding.

We oppose the AMP-CMP program as a whole because based on its past record it has only accomplished enlarging an over size bureaucracy requiring more salary incomes at the expense of the taxpayers with few visible or productive results.

Therefore, we request BLM delete the District Preferred Alternative LIUM the final document and adopt the Industry Alternatives as the Proposed Action Alternative.

alternative listed. Those knowledgeable of this area and the true reasons As stated previously the improvements existing today are there because of the intermingled land patterns and unrestrictrangelands would be recognized and the taxpayers would not have to raise permits should be provided as they were at their origin without present additional funds. Existing personnel could issue the permits; Therefor ed issuance of Section 4 permits. These permits, if liberally applied barbed wire, 17.5 miles of net wire fences, 38 new water developements and 32.5 miles of pipelines. The immediate improvement to the Federal Our only caution is that would result in more rapid installation of the 15.5 miles of 4 strand the range resource is in the satifactory condition it is today fully if our alternative is adopted as the Proposed Action then Section 4 The Industry Preferred Alternative is purely the only logical no increases in personnel would be required. support this alternative. day restrictions

We urge the BLM to delete the much disputed and discredited antelope numbers as requested in our statement at the official hearing on June 15, 1944. Virtually nothing can be accomplished by their inclusion and it discredits the quality of the document.

As stated on page 2-16 of the DEIS, approximately 4,358 antelope inhabit the Roswell Resource Area. Of this number, it is estimated that the federal land supports approximately 385 head, exclusive of projected heronghorn Habitat Study Area. NNDG&F data indicated the projected harvest for the major portion of southeastern New Mexico in 1976 was 640 head. Actual harvest in 1976 in NNDG&F's southeast area was 847 head (personal communication with NNDG&F, Roswell 16 July, 1984).

more

Page 3

The socio economic analysis in the Draft statement is probably the weakest element of all. First, it is totally inaccurate to use gross values for a hunter day on Federal lands and relate to net returns of livestock operations. The comparable of apples and oranges will certainly bring about unacceptable and hotly contested decision's from future authorized officers.

We concur unanimously with concerns of Dr. John Fowler in his statement made on June 15, 1984. The inaccurate, inconsistent, compilation of imputs and outputs is extremely concerning. Dr. Fowler is a recognized expert on ranch budgets and economic ranch I-O models. His imput is vital to have an accurate analysis of the socio-economic impacts on the individual ranchers and local communities.

Page I-l portrays our increasing concern over the apparent attempt by BLM to minimize the value of livestock grazing on Federal range lands. 1982 was probably the worst year, economically, for the ranching industry in Southeastern New Mexico.

The use of unsubstantiated estimates, based on manipulation of I-O figures, to form broad assumptions which will have a severe and critical affect on the livestock industry is of major concern. Buseau personnel can not support such erroneous errots. Therefor, we request the economic sector be redone entirely and further request a cooperative, coordinated effort be established with Dr. Fowler who can provide long term data on economics of ranching operations in this area and the State.

More specifically we feel certain statements or assumptions should be deleted or revised before printing the Final Document. They are on:
Page 2-26 "Socioeconomic Conditions" the statement that "Recently, increased demands for access to and use of the public resources have been perceived by some as a threat to the traditional ranching lifestyle"is an erroneous, false, biased statement that should be retracted.

The facts are that unrestricted, uncontrolled access to public lands by some who show no respect or consideration for others is the true concern of the ranchers. In the past few years there has been a tremendous increase in gates left open, fences destroyed, livestock crippling and killing, target practing on windmills and stock tanks, breaking, entering and stealing from dwellings, confrontations and killing of ranchers, etc, etc, ect.

The tables on revenues and income from recreation are not to be compared with any of the tables of income for livestock operations. It was not the intent to compare net income from ranch operations to wildlife/recreational values. A statement has been added to the Errata section for each of the respective ranch income tables in Chapter 3 of the DELS.

The year 1982 was used to represent the typical receipt and cost patterns of the BLM livestock industry for two reasons: (a) New Mexico State University had just constructed ranch budgets, dealing with production for the 1982 production year for the southeastern portion of the State. After consultation with Dr. James Gray, NMSU Department of Agricultural Economics, it was determined that the NMSU ranch budgets were representative of the typical receipts and costs patterns of livestock operations on public lands and could be adjusted proportionally to the various ranch size categories used in this analysis; (b) The non-availability of ranch budgets for the previous three years, 1979-81, prevented the use of a five-year average for product prices and input costs.

Income in the seven county region. The ranch budgets used in the analysis was based on gross rancher income in the seven county region. The ranch budgets used in the analysis which were the basis for the I/O input data were coordinated with Dr. James Gray of NNSU. The problems with the economic section have been corrected, based on information and conversation with Dr. John Fowler of NNSU. It is felt that the economic section is adequate as corrected.

10.9 Reference to this item will be deleted from the DEIS.

Page 4

It is becoming impossible to manage, protect or control the destruction of private property and improvements. It is becoming impossible to manage livestock production programs in a profitable manner in the intermingled land ranches. It is becoming more impractical to derive a living or live on the Federal lands that we pay a lease fee to graze.

These are just some of the increasing problems associated with free and open access. Ranchers do not object to the multiple uses of the Federal lands but when those uses, by some law breaking, irresponsible people create destruction of private lands and improvements then most assuredly they threaten continued existance.

We request you delete the language and insert what is true documented facts of life and problems associated with access.

page 3-29 "Impacts of IPA on vegetation. The Sentence "Without the benefit of proper grazing management, improvement would be slight" should be deleted. After 50 years of prinarily private range and livestock management the range lands have improved to their present condition. The Government certainly has no long term record of such Affective, cost efficient management.

Page 3-43 "Impacts of ELG on Wildlife." The assumption that long term deer and antelope population would increase are highly guestionable. In wilderness areas where predator control has been eliminated, game animal populations have been on a dramatic decrease for quite some time. The control methods used by livestock producers, basically sheepmen, are one of the main reasons why stable, viable game herds are prevalent. Further, the maintenance of permanent waters by permittees provides year round occupancy of rangelands which otherwise would support very few game animals. This is evidenced by the fact that over the past 25 years mule deer especially, are inhabiting a very large area they had never before occupied.

It is a fact, game animals especially would decrease without livestock grazing, so BLM's assumption should be deleted.

Page 3-63 Impacts of DLG on Socioeconomic Conditions. The assumption based on impractical estimates that 1 small cow-calf and 8 medium sheep/cow-calf operations would become non-self sufficient may be a large error. Irregardless, any livestock operation receiving a 10% or larger

The initial range condition ratings indicate that less than satisfactory range conditions exist on the "I" allotments. Under the IPA, no grazing programs would be developed to correct these didentified problem areas. By implementation of grazing programs on the "I" allotments, as described in the DPA, it is felt that the problem areas can be corrected and brought to a satisfactory level.

Mule deer numbers have increased in the past due to alteration of grazing and fire regimes existing before livestock grazing. The resulting increase, in browse/cover species, along with increased water availability, increased the range and numbers of mule deer. While deer would likely decrease if succession shifted vegetation types toward grassland over a very long period, decreased competition for forage and cover would increase deer numbers in the ELG long-term period of 25 years. Antelope, where they exist, would increase due to reduced competition for forage. Predation will not be a significant factor on healthy big game herds in areas where habitat is unrestricted by fencing as is indicated on page 3-43 of the Draft.

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Page 5

reduction would probably become non-selfsufficient.

Page E-4 Roswell Antelope Study. Refer to our previous statement at the June 15, hearing.

Page I-1. Structure of the Economy. Refer to earlier comments of ours and statement of Dr. John Fowler on June 15.

Page GL-1 The definition of Cooperative Agreement should also include "Permittee and U. S. Government hold proportionate interest of the improvement."

Page GL-8 The definition of Section 4 permits should include "Permittee retains full title to the improvements."

In summary we do commend the Bureau personnel for their efforts to produce a high quality document. It is superior to many we have reviewed. Our major concerns, as I hope our comments reflect, are in generally three areas: (1) The existing situation has not been adequately explained so the many contributions and sacrifices the ranchers have made over several generations are visible to the viewers of this document. Also, the range conditions today reflect their expert grazing management abilities, along with the placement of improvements in a cost-efficient and effective way. (2) The economic analysis is not approprize to measure the socioceonomic effect that future decisions may have on the livestock industry or local communities. (3) The biased statements and assumptions are irrelevant to the existing conditions or future objectives of continuation to the improvement of the resource for livestock, wildlife, watershed, etc.

We request you consider these comments and recommendations in a constructive manner with the resource upper most in all of our minds. We feel there is sufficient documented evidence to amply prove the capability of those dedicated individuals who for several generations have devoted their lives and resources to the improvements of the range lands, but we remain open and willing to discussing our comments and recommendations with the preparers of the Final BIS document so it will truly be the quality product we all desire.

10.12 This item has been added to the Glossary. See page 66 of the FEIS.

10.13 This item has been added to the Glossary. See page 67 of the FEIS.

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### UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

Field Supervisor Ecological Services, USFWS Post Office Box 4487 Albuquerque, New Mexico 87196

July 20, 1984

Memorandum

To:

Area Manager, Bureau of Land Management, Roswell Regource Area, Roswell, New Mexico Field Supervisor, FWS, Ecological Services.

Albuquerque, New Mexico

From:

Review of Draft Management Framework Plan Amendment/Environmental Impact Statement for the Roswell Resource Area (BLM) EC 84/16

Subject:

The U.S. Figh and Wildlife Service has reviewed the subject document and offera the following comments:

We aupport the BLM management objectives to improve ecological range conditions, to enhance wilalife habitat, to protect and conserve wetlands, tiparian resources and threatened and endangered species, and to atabilize watersheds. These objectives can best be achieved by implementing the District Preferred Alternative (DPA), the Elimination of Livestock Grazing Alternative (ELG), or the Decreased Livestock Grazing Alternative (DPA). The Industry Preferred Alternative (IPA) and the Maximization of Forage of Livestock (MAX) are least likely to achieve these objectives. The Proposed Action (PA) or "No Action" alternative is less desirable than the DPA, ELG or DLG, but more desirable than the IPA or MAX alternatives.

The "No Action" alternative is the baseline to which the other alternatives can be compared. However, its designation as the Proposed Alternative the plants a preliminary decision has already been made with regard to the selection process. We believe this designation is both misleading to the reviewer and premature considering that one of the other alternatives, or a combination of several alternatives, may be selected for implementation. We suggest that you designate the PA as the No Action (NA) alternative to avoid any possible ambiguity.

We appreciate this opportunity to comme

John C. Peterson

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Chief, FWS, EC, Washington, D.C.
Chief, FWS, EC, Washington, D.C.
Regional Director, FWS, Habitar Resources, Albuquerque, New Mexico

The Proposed Action (PA) alternative was labeled in compliance with Washington Office Instruction Memorandum 82-650, dated September 3, 1982, which directed that (for all grazing EIS's) initiated during and after FY 1983 the proposed action shall be the continuation of the present management situation based on the permittee's or lessee's active preference, previous year's licensed use, or average actual use.

-

# Wildlife, Range, and Water Management, Inc.

Porrie DeMasters President Michael Bordenchuk Biologist



BLM, Rosnell Resurce Area RO Drown 1857 Rosnell N. M. 88201 AHM: Linda S. C. Rundell

Dony Mr. Rudell

This letter is to serve as comment on the Dieth MFP Assendant Els on Rongeland Managament in the Rismall Resource Asea. It redice that these connects will probably be recieved late, but hope that they may be incorporated into the revisions for the final Els.

Specific comments on evens or apporent errors. Will west be unade. I'm swee that these have been brought to your attention through various of their sources, such as a the NMSA Remye Improvement Test Force and N.M. Dept. of Agriculture, I would like to compliment your efforts on their has been one of the "error free documents of its type which I have reviewed. I will attempt to company only on areas of major concern.

## Wildlife, Range, and Water Management, Inc.

Ronnie DeMasters President Michael Boedenchuk Biologist

796" Pa Box 472 JUL 2 Chama, New Mexico 87520 (305) 756-2942

There appears to be very little difference between the DPA and older IPA, but these differences, can be vary important. Howing played a vote in the development of the IPA I had a abligated to comment on it.

is not needed. injected bini in the Wastock the DPA. I Almon daine soitsitate ± INC FERSE maker beauseancy where Buscan than í He H I counst find anywhere towered ナナン under the Maintain +44+ 3-44-5 numbers bed in

am extreenily the development of the IPH the Department document tells hud not adopted the Cooperative Management in the DPA ( since it is stundend Essentially, our afternative has inclusion of this policy, and a greater coop. b. il. by point of the IPA (since it is that this was left out of the the lines of this policy. I to the document. As it stends the story. its analysis, would have lant operating proceedure). The Agreement (cma) policy. 6 so cheely related) 8 Port: 97 of Interes EIS either dissa ppointed fellen almy Duins

I believe that there was no reason to evaluate a DLG atternative office than to placeate anti-grazers.

We have long unaderstood the inclusion of the ELG and MAX alternatives and they seem to balance each offer out. However, the DLG

The IPA and DPA are similar in content, differing mainly in funding of range improvements and the development of grazing programs, etc. The initial range condition ratings indicate that less than satisfactory range conditions exists on the "I" allotments. Under the IPA, no grazing programs would be developed to correct these identified problem areas. By implementation of grazing programs on the "I" allotments, as described in the DPA, it is felt that the problems can be corrected and the area's condition brought to a satisfactory level.

The Draft MFPA/EIS does not preclude the development of CMA's. The regulations referred to are currently being challenged in the judicial process. It was deemed not prudent to emphasize the CMA program pending resolution of the challenged items. CMAs are not standard operating procedure.

# Wildlife, Range, and Water Management, Inc.

Ponnie DeMastens President Michael Boedenchuk: Biologiet

P.O. Box 472 Chama, New Mexico 87520 (505) 756-2942

alternative is nothing worre than the expression of a feeling which should not be present within the Bureau.

In all the document was well proposed.

I believe use should have had greater access
to the retionale between the end results of
the DPA and IPA analyses. It shoulder believe
that there two alternatives and closer in their
impact them the Burean would lead us to believe,
and feel these IRA IPA is better keeping
to the present policy (ie CMAis) and is more asstefficient.

My recommendation is that the IPA be implimented through the Record of Decision

Sincerel, Willeall J. Bodenhill

Bishegiet

United States Department of Agriculture

Soil Conservation Service

517 Gold Avenue SW, Room 33D1 Albuquerque, NM 87102 July 19, 1984

JUL 2 4 15.50

Bureau of Land Management Roswell Resource Area P.O. Drawer 1857 Roswell, NM B82D1

Mr. Phil Kirk

Dear Mr. Kirk:

We have reviewed the Draft MFPA/EIS for the Roswell Resource Area.

Our comments are:

Page 2-1D, Water, third paragraph, second sentence should be changed to read - The method is based, in part, on soil infiltration rates, etc.

Page 2-13, Desert Mule Deer. We suggest that additional details be furnished to indicate that browse types in the Corona, Ancho, White Oaks areas are being damaged by overutilization of large deer populations.

Pronghorn – exclusive of the study area. These rangeland habitats have suffered from drought, with loss of grass production and concurrent increase in forb specifies. We do not agree that these rangelands are in a stable condition as far as antelope habitat. The habitats are now good antelope habitat, but will decline in food quality. As ecological condition improves, wouldn't its value as antelope habitat decline?

lands. Ranching operators have been, and we feel, will continue to make improvements to grazing management. We feel that without BLM involvement, beginning on page 3-3. There are connotations repeatedly made that no major changes in management will occur. The land area, according to our information, is 83.6 percent private and State of New Mexico We disagree with some of the statements made for the proposed action, there will continue to be improvements to the resources. Page 3-12, Chemical Brush Control. First paragraph. We question the fourth sentence - beginning - "Density of brush species may increase-etc". The statement appears contraditory to the rest of the paragraph. We suggest clarification is needed.

Page 3-13, We understand that the label for 2, 4, 5-T has been withdrawn and that its' use is no longer approved for use on rangeland.

Page 3-15, Range Improvements. We suggest that statements about the value of 38 additional livestock waterings in reducing overutilized ranges should be restated. Our review of the MFPA/DELS indicates that the planning area is 2323.3 square miles. Adding 38 waterings, or one for every 61.1 sections will have little effect on livestock distribution. The needs of the land could more realistically be met by adding one watering for each section of productive rangeland.

The Soil Conservation Service is an agency of the Department of Agriculture

13.1 FEIS.

The vast majority of the areas referred to are held by private interests and the US Forest Service. 13.2

According to the data supplied by the NMDG&F, these rangelands are currently in stable condition for antelope. Depending on an area's range site, along with management practices, improved ecological condition may or may not be beneficial to antelope. -13.3

13.4 The assumption used that no major changes in management would occur was developed in order to provide a constant for baseline analysis.

Depending on range site and management practices, grass production would remain higher than levels prior to treatment for 7 to 30 years. Depending again on those two factors, the density of brush may begin to increase several years after treatment, thereby making some form of maintenance treatment necessary within 10 to 20 years. 13.6

As stated in the Standard Dperating Procedures (no. 12, page 1-19 of the DEIS) the BLM would not use any herbicide not authorized for use (labeled) by the USEPA, WMDA, DOI, and registered by the USEPA and 13.6

This area contains approximately 3,000 water sources. The additional 38 water sources would be developed to correct identified problems on "I" category allotments. 4

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

INTERFIRST TWO BUILDING, 1201 ELM STREET DALLAS, TEXAS 75270

JUL 18 1504

Mr. Phillip Kirk Area Manager Bureau of Land Management Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88201

Dear Mr. Kirk:

We have completed our review of your Draft Management Framework Plan Amendment/Environmental Impact Statement (EIS) on a proposed rangeland management program for approximately 1.5 million acres of public land in the Roswell Resource Area located in Lincoln, Chaves, Quay and four other counties in southeastern New Mexico.

that included increasing forage for livestock, decreasing livestock grazing and eliminating grazing. The preferred alternative contains a combination of elements that conforms to the BLM Grazing Management Policy and responds The management program involves the amount of vegetation available for grazing and other uses; the methods of monitoring and evaluation, and rangeland improvements. The Draft EIS evaluated the alternative programs of elements that conforms to the to social and economic concerns. We classify your Draft EIS as LO-1. Specifically, we have no objections to the project as it relates to EPA's legislative mandates. The EIS contained sufficient information to evaluate adequately the possible environmental impacts which would result from project implementation. Our classification will be published in the Federal Register in accordance with Section 309 of the Clean Air Act.

Definitions of the categories are provided on the enclosure. Our procedure is to categorize the EIS on both the environmental consequences of the proposed action and on the adequacy of the EIS at the draft stage, whenever possible.

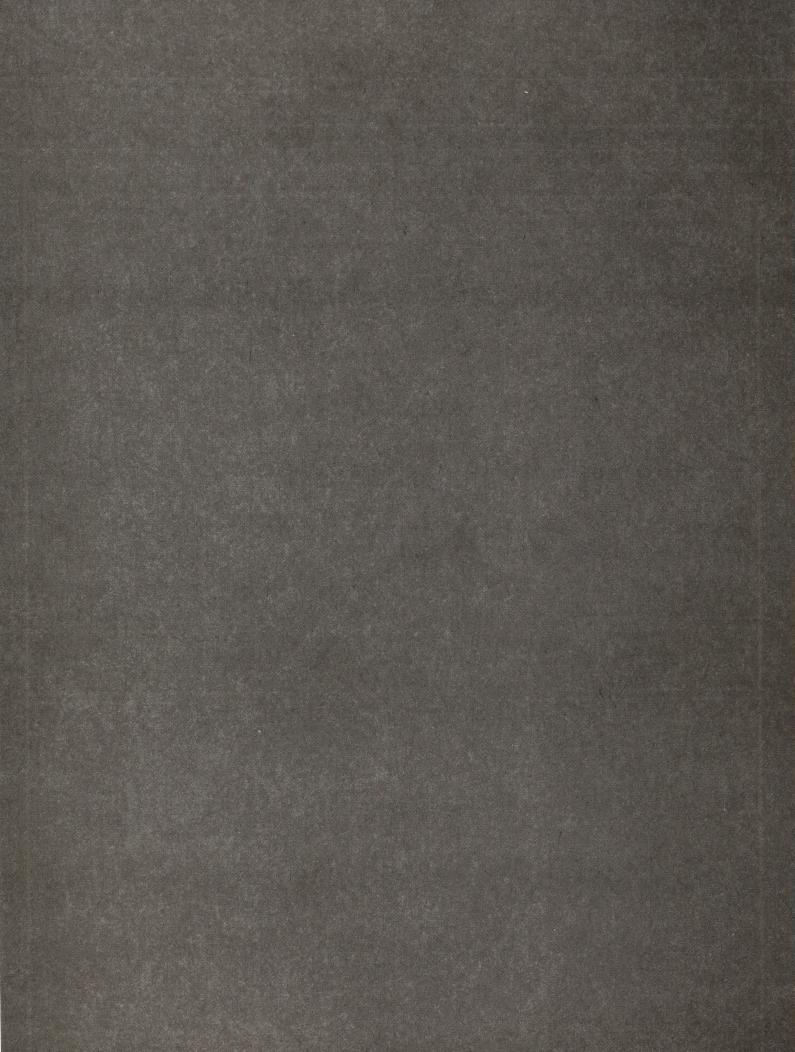
We appreciated the opportunity to review the Draft EIS. Please send our office five (5) copies of the Final EIS at the same time it is sent to the Office of Federal Activities, U.S. Environmental Protection Agency, Washington, D.C.

Sincerely yours,

Dick Whittington, P.E. Regional Administrator

Enclosure

#### PUBLIC HEARING



STATEMENT CONCERNING MANAGEMENT FRAMEWORK PLAN AMENDMENT/ ENVIRONMENTAL IMPACT STATEMENT: Draft

By John M. Fowler
Associate Professor
Agricultural Economics
New Mexico State University
Range Improvement Task Force

Examination of the Roswell Resource Area Environmental Impact Statement (EIS) has yielded a mixture of concerns. These concerns should be properly addressed before decisions are made that directly impact upon the livestock industry and surrounding community infrastructure. The comments will address specifically the socio-economic portion of the EIS.

#### LIVESTOCK INDUSTRY INCOME

Under the general heading of the livestock industry income it is readily apparent that more detail is needed in order to evaluate the "soundness" of the information. The relative importance of the livestock sector in the 1-0 model used in the EIS is a direct function of both the receipts and costs of the budgeted ranches.

The first major concern is the selection of the year 1982 to represent the typical receipts and cost pattern of the livestock

The year 1982 was used to represent the typical receipt and cost patterns of the BLM livestock industry for two reasons: (a) New Mexico State University had just constructed ranch budgets, dealing with production for the 1982 production year for the southeastern portion of the State. After consultation with Dr. James Gray, NMSU Partment of Agricultural Economics, if was determined that the NMSU ranch budgets were representative of the typical receipts and costs patterns of livestock operations on public lands and coll be adjusted proportionally to the various ranch size categories used in this analysis; (b) The non-availability of ranch budgets for the previous three years, 1979-81, prevented the use of a five-year average for product prices and input costs.

animal units (AU's) actually run on the allotments and longterm monitor-The return for the medium net as presented the 1982 BLM range livestock industry is stated as making a net return one year for inconsistancy between text and table 2-12 is made on page 2-30. Here, negative figure then it is small wonder that the of rancher net incomes It is therefore depreciation is listed - 1982; over the last 25 years negative ranch income were product prices and input costs. Ranch budget work is expensive and A further Which of the figures was included in the I-O model of sector interarduous but is vitally necessary for the accurate determination of Whereas the value reported in table 2-12 is a positive 1.5 million. determine the reasonable to question the negative net incomes for small cow calf small commercial cow/calf of to operator labor, management, and capital of a minus 1.5 million. no significant impact when reduction income that is eventually plugged into the I-O model framework. operations and medium sheep operations as stated on page 2-29. it is apparent that a mistake has been made. only operations commercial sheep/cow-calf rather than a negative figure. 205,314 was used to determine forage and trend; why then industry. Five year actual use figures were used to calculated in 5 of 25 years or only 20% of the time. of Enclosed for New Mexico is a list medium commercial sheep/cow-calf thousand, return further examining negative income of the nearly 242 thousand leaving a positive as 447 considered. is reported BLM livestock industry had livestock numbers was action; if it was the above cash costs in table 2-12, operation and Appendix A: from 1940

A more detailed examination of the numbers used indicate a further discrepancy between the number of operators; the text states (2-29)

The narrative on page 2-29 has been changed to correct the error in the medium sheep/cow-calf operations. The negative values derived for the small commercial cow-calf operations were a result of the computations of the LIV model using the ranch budget information coordinated with Dr. James Gray, NNSU.

The narrative on page 2-30 has been changed to read "When allowance is made for depreciation from total sales, returns to operator labor, management and capital is reduced to a total net income of \$1.5 million."

The cumulative gross ranch income for each alternative was used to P M 1.4 drive the I/O model. The net income, 1.5 million dollars, is depicted in the ranch budgets and was used to assess primary impacts on the livestock operators.

that there are 40 cow-calf and 36 sheep/cow-calf whereas the table indicates a population of 39 cow-calf and 37 sheep/cow-calf. Where is the consistency? How many of the actual operators were included in developing the budgets in the appendix? Two figures stand out drastically in the index budgets; first is the very high depreciation values subtracted from gross income and secondly is the very heavy cost of supplements and feed. The discrepancy could be in the sample drawn or in the year selected.

The cumulative result of all the above considerations could drastically change the profitability picture of the livestock industry. The probability of negative net income is around .20 but the degree of negativity is an explicit function of the cattle prices received, operations costs incurred and unrealistic depreciation schedules. Severe doubt is cast upon the socio-economic portion of the Management Framework Plan Amenduent/EIS, when these potential pitfalls (that are difficult to document) are coupled with the provided data and its' obvious discrepancies between text and tables.

# Recreational Values

Another area of the EIS that needs further explanation is the recreational values on public land. By combining the activity and value of activity of table 2-13 with the number of visitor hours under the existing situation, an interesting result is determined. The \$373,551 recreational value for deer hunting in the western portion is derived from 52,536 hours of deer hunting in the western portion. This

The narrative on page 2-29 has been changed to read "Those allotments PH1.5 are used by 76 ranchers, 37 sheep/cow-calf operations and 39 cow-calf operations."

PH1.6 The depreciation values and the cost of supplements and feed were derived from the NMSU ranch budgets and adjusting them to the various BLM ranch size categories in consultation with Dr. James Gray, NMSU.

Table 4. Calculation of Net Returns to Operator Labor, Management and Total Capital New Mexico, 1940-82

	220	220	220 390	New Mexico	New Mexico New Mexico New Mexico Adjusted	New Mexico	Adjusted	New Mexico	New Mexico New Mexico
Year	Head	Head	Head	240 Head	240 Head	300 Head	300 Head	450 Head	1000 Head
1940	1,376						1,698	2,904	8,422
41	2,590						3,196	5,465	15,852
42	3,325						4,103	7,016	20,351
43	2,049						2,529	4,325	12,544
77	1,541						1,902	3,252	9,434
4.5	2,334						2,880	4,925	14,285
94	2,424						2,991	5,115	14,835
47	4,140						5,109	8,736	25,341
84	6,318						7,797	13,333	38,673
64	6,636						8,189	14,003	40,617
1950	9,183	8,397					11,332	19,378	56,207
51	9,233	8,293					11,191	19,137	55,507
52	1,134	38					51	87	253
53	064-	-1,927					-2,600	-2,300	200
54	323	-1,281					-1,729	-1,429	1,071
55		1,399					1,888	3,228	6,364
99		-3,078					-4,289	-3,989	-1,489
57		2,771					3,739	6,394	18,545
58		7,524					10,154	17,363	50,364
59		6,559					8,851	15,135	43,901
1960		7,112					9,598	16,413	47,606
61		8,167					11,021	18,846	24,664
62		7,789					10,511	17,974	52,135
63		5,081					6,857	11,725	34,011
75		1,310	-1,133				1,768	3,023	8,769
6.5		6,146	8,777	6,513	5,269		8,294	14,183	41,138
99		7,293	10,729	3,777			4,810	8,225	23,858
19		7,216	8,764	6,239			7,945	13,586	39,407
89		7,343	10,278	3,175			4,043	6,914	20,053
69		10,468	12,174	8,882			11,310	19,340	56,098
1970							11,161	19,085	55,359
71			7,668	7,611			9,692	16,573	48,072
72			25,602	18,067			23,007	39,342	114,115
73				20,216			25,743	44,021	127,685
7.4				-2,127			-2,709	-1,509	7,091
75				-7,142			960*6-	968'1-	704
92				-8,246			-10,500	-9,300	-700
11				950'6-			-11,532	-10,332	-1,732
7.8				8,492	Æ	*10,801	10,801	18,470	53,573
42				22,069	23,980		28,103	48,056	139,391
1980				11,656			14,843	25,382	73,621
61							2,930	5,010	14,533
1					-5.545		-4.841	-3.641	7.829

<sup>\*</sup>Adjustment factor for negative values was 58 per head x increased number head, less loss on smaller ranch in 1970's, and \$2 per head in 1950's.

<sup>\*</sup>Adjustment factor for positive values was 1.71, based on SW runch net incomes per head.

STATEMENT OF BUD EPPERS
FOR MEMBERS OF THE
SOUTHEASTERN NEW MEXICO GRAZING ASSOCIATION
NEW MEXICO CATTLEGROWERS
NEW MEXICO PUBLIC LAND COUNCIL
ROSWELL DISTRICT GRAZING ADVISORY BOARD

ELL DISTRICT GRAZING ADVISORY BOARD
ON
WEST ROSWELL MANAGEMENT FRAMEWORK
PLAN AMENDMENT AND ENVIRONMENTAL

AT ROSWELL INN FRIDAY JUNE 15, 1984

IMPACT STATEMENT

The Bureau of Land Management personnel are to be commended for the compilation of material presented in this Draft MFPA-EIS. Organization of alternatives and comparisons formulated in such a way that evaluation is much easier.

We are disappointed that the Bureau did not include and request that they do so in the final EIS, an elaboration of the existing situation. Livestock producers have totally financed, constructed and maintained over 95% of all existing range improvements on the Federal lands in this area.

Extensive pasture developement has resulted in more effective livestock management. Calf and lamb percentages exceed those found in the majority of the western third of the nation. Although animal weights were taken during one of the most serious drouths this area has experienced in 40 years, more normal weights of calves would be in the 450-550 pound range while lambs average between 75-95 pounds.

Water development and distribution are unequaled in other regions. Livestock travel less than 2 miles and in most areas probably not Thore than 1 mile. Results have been extra ordinary as is seen in the tremendous improvement that has occured around sacrifice areas of the few natural water holes. Uniform grazing patterns exist throughout most pastures which has ultimately resulted in over 80% of the ranches being placed in the "M" category.

Virtually 60% or the area evaluated fell in the Good to Excellent condition class. 30% was found to be in High Fair while only 10% was in Lcw Fair or Poor. Futhermore, only 1 allotment was identified as having a declining trend; 8 were stable and 114 were in an improving trend.

Thirteen or 34% of the allotments in the I category were placed there solely because additional range improvements were desired on Federal Lands.

Deer, antelope, quail, dove, pheasant and numerous other forms of wildlife and birds inhabit this area in abundance reflecting their compatability with the various classes of livestock that graze upon the land. Mule deer have inhabited a large portion of this area only for the past 20 years. Prior to the vast developement of permanent water no deer existed, neither were gray kit fox or quail prevalent.

3

The previous facts need to be included in the F. E. I. S. for any interested party to review. They are true facts, not assumptions and the record of acheivement should be placed where if belongs; on the ranchers who have sacrificed dearly to bring about these improvements.

As we stated earlier, over 95% of all range improvements on the Federal lands were totally constructed, paid for and maintained by the ranchers. Only the ranchers are responsible for the exceptional good condition the land is in today. Ranchers in Southeastern New Mexico should be placed on a pedastal for all to see so that others may benefit from their acheivements.

We are extremely disappointed the Bureau continues to cite the falsehood of declining antelope numbers west of Roswell. The 3,000 head figure may have been true but records also exist in New Mexico Department of Game and Fish files that the Roswell District had 4,870 in 1976. Also and most important there were 640 antelope killed in the 1976 season alone on the Brown, Henderson and Corn pranches which is far above 300 head west of Roswell as stated by the Bureau.

Irregardless the recent antelope study verified rancher contentions that competition between sheep and antelope for available forage are so great that antelope could not survive during the numerous drouths that affect this area.

The New Mexico Department of Game and Fish had also rated this same area as prime antelope habitat for the Management Framework Plan. Again, the study highly indicated that a majority of these lands were unsuitable for antelope habitat.

We strongly recommend that the false figures on antelope numbers west of Roswell be delated from the FEIS.

The Saye Ram program developed by the Bureau in Denver is going to be criticized tremendously for the valuations applied to hunter days. I beleive, as sure as I'm sitting here, that within the forseeable future comparison will be made in values of game animals and their pursuit and livestock. Using travel, food, lodging; etc. to value recreational hunting and then only a small proportion of benefits ranchers and livestock contribute for comparisons is absured. Future decisions that pit Sage Ram wildlife values and livestock will be strongly contested. It would be another comparison of apples and oranges which the Bureau has attempted in the past

As stated on page 2-16 of the DEIS, approximately 4,358 antelope inhabit the Roswell Resource Area. Of this number, it is estimated that the federal land supports approximately 385 head, exclusive of the Pronghorn Habitat Study Area. NMDGAF data indicated the projected harvest for the major portion of southeastern New Mexico in 1976 was 640 head. Actual harvest in 1976 in NMDGAF's southeast area was 847 head (personal communication with NMDGAF, Roswell 16 July, 1984).

PM2.2 antelope and sheep will limit antelope numbers. However, without this competition factor, a portion of the area would be suitable for antelope.

SAGERAM values were not used in assessing income and revenue generated by recreational use. This assessment is based on actual expenses.

PM2.3 Values in SAGERAM are based on the willingness-to-pay concept.

Reference to SAGERAM in the recreation section and Appendix G has been deleted. Incremental values of recreation are presented in Appendix G.

MOI

with little success. We realize this is not a decision document but decisions will be made from it and we would recommend deletion of Sage Ram values for hunter days or inclusion of all values attributed to livestock.

This concludes my statement for this hearing on the West Roswell MFPA-EIS but I will submit more detailed comments shortly.

Again, I commend the Bureau for the improvement of the EIS over previous statements. With our recommended changes we feel decisions of the future can be made with pride by BLM personnel and accepted with less opposition by those most affected.

## Statement of Thor Stephenson New Mexico Department of Agriculture

Good afternoon. My name is Thor Stephenson; my address is Post Office 5702, Las Cruces, New Mexico, 88003. I am a Range Management Specialist with the New Mexico Department of Agriculture and am speaking today on behalf of the Department. We appreciate this opportunity to present commentary on the Roswell Resource Area Management Framework Plan Amendment/Environmental Impact Statement in a public meeting.

We have reviewed the document and are today presenting brief comments on a few general topics. Technical commentary will be provided in written format prior to the comment period deadline of July 19, 1984. We would like to commend the Bureau and the preparers of this document on several aspects. First, we found a majority of portions of the document with which we were primarily concerned to be concise, well-written and easily read.

This is not to be construed to mean that we have no problems with the quality of the document in specific instances, however. The bulk of the DEIS is of satisfactory quality. Second, the Bureau's conclusion and analysis of an industry initiated alternative, the IPA, or Industry Preferred Alternative, is worthy of note. We also believe that with some exceptions the Bureau's analyses of this Alternative was concise, fair, and objective. This is the first grazing DEIS we have reviewed that has included an Alternative prepared and submitted by livestock interests. We also found it interesting to note

administered by the Roswell Resource Area, West Side, 30 percent are placed in On page 3-30 is stated, I quote, "without the benefit of 16 allotments currently under existing allotment plans have been placed in the the developement of Cooperative Management Plans under the District Preferred The "M" category allotments have plans currently in force. Additionally 5 of the that the District Preferred Alternative, developed by the BLM, is remarkably Alternative, and an assumption, used by the BLM for analysis of the District assumes that management conducted by the permittee would be inferior to that similiar to the Industry Preferred Alternative, the major differences being evidence that this assuption is invalid is that: of the grazing allotments majority of the "M" category allotments do not presently have BLM generated percent of the current annual (sic) management, Allotment Management Plans. management plans to prescribe grazing use. In fact, only 12 percent of the proposed by the Bureau under the District Preferred Alternative. The best unsatisfactory ranching conditions. If these "C" category allotments were the "M" or Maintain category, acknowledging the current satisfactory range trend is static with the plan. These "I" category allotments represent 31 "C" or Custodial category, condition of these allotments. Over 55 percent of the allotments in the removed, of the remaining allotments 69 percent are in the "M" category. This Preferred Alternative. We believe the assumption used by the Bureau in analyzing the Industry Preferred Alternatives' affect on the vegetation mainly on the basis of the amount of Federal land involved, rather that proper grazing management, improvement would be slight", unquote. that 50 "I" category where range condition may have scored less Roswell Resource Area have been placed in the resources is flawed.

The initial range condition ratings indicate that less than satisfactory range conditions exist on the "I" allotments. Under the IPA, no grazing programs would be developed to correct these identified problem areas. By implementation of grazing programs on the "I" allotments, as described in the DPA, it is felt that the problems can be corrected and the area's condition brought to a satisfactory level.

The BLM recognizes that problem areas still exist within five AMP alotments. Due to budgeting and other constraints, these AMPs have not yet been fully implemented.

When analyzed on an acreage basis, 61 percent of the total Federal acres involved are located in the "M" category allotments, and 51 percent of the range is rated as being in good or excellent condition. All these figures are evidence of the fact that a majority of permittees have done an acceptable job of managing their own grazing use of Federal land without BLM generated plans, contrary to the assumption used in the DEIS.

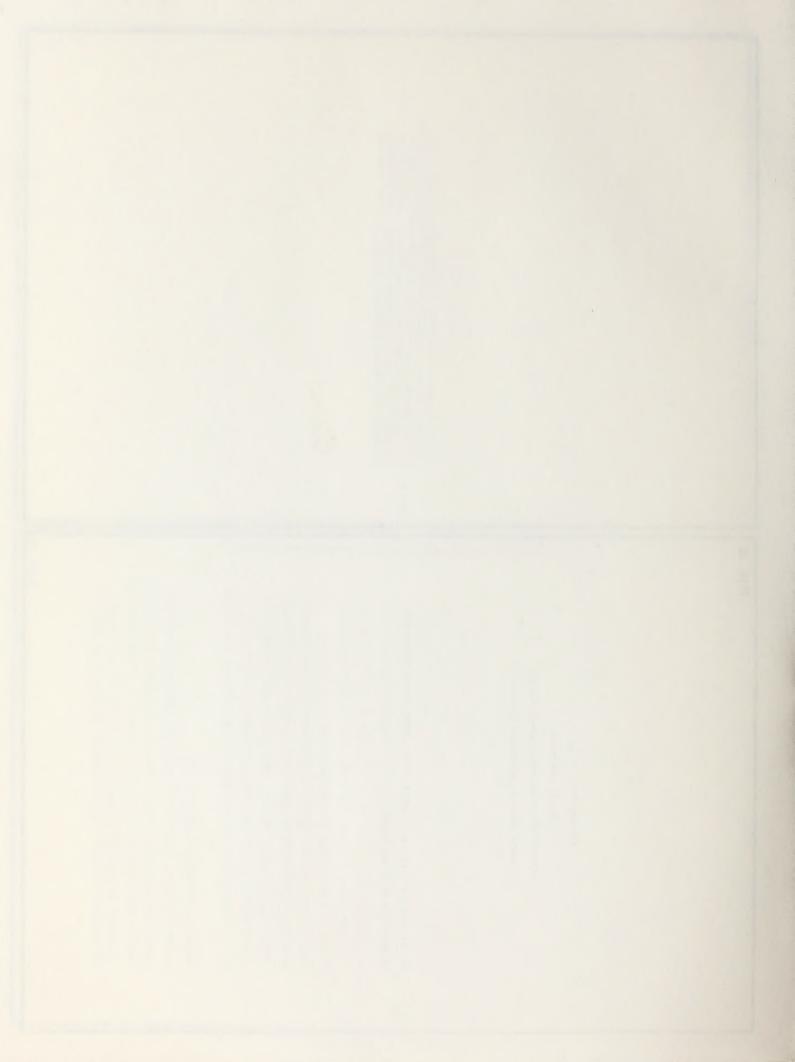
Our final comment applies to the labeling of the No Action Alternative as the the No Action Alternative; the DEIS has changed the name of the Alternative Number one: during the scoping process one of the Alternatives proposed was The Bureau obviously perceived the confusion this Alternative, per se is not the problem, but rather the choice of calling it statement would not have been required if the unfortunate choice of calling We believe that such a We believe a brief, concise explanation of what the term No Action actually context, implies the status quo of Bureau activities would remain in place. would cause by including the statement on page 1-9, I quote, "the proposed the Proposed Action, which implies it is the Preferred Alternative or the confusion also surrounds the actual intent of any No Action Alternative. There are 3 major reasons for this confusion Actually, No Action, as used in this This has caused confusion on the part of some of the Number three: of the No Action this Alternative the Proposed Action had not been made. changing the name action is not the Preferred Alternative", unquote. implies should be included in future documents. implies the BLM would do nothing. two: Number reviewers of the document. planned course of action. to Proposed Action. proposed action.

On behalf of the New Mexico Department of Agriculture I thank you for this opportunity to present our views on the DEIS.

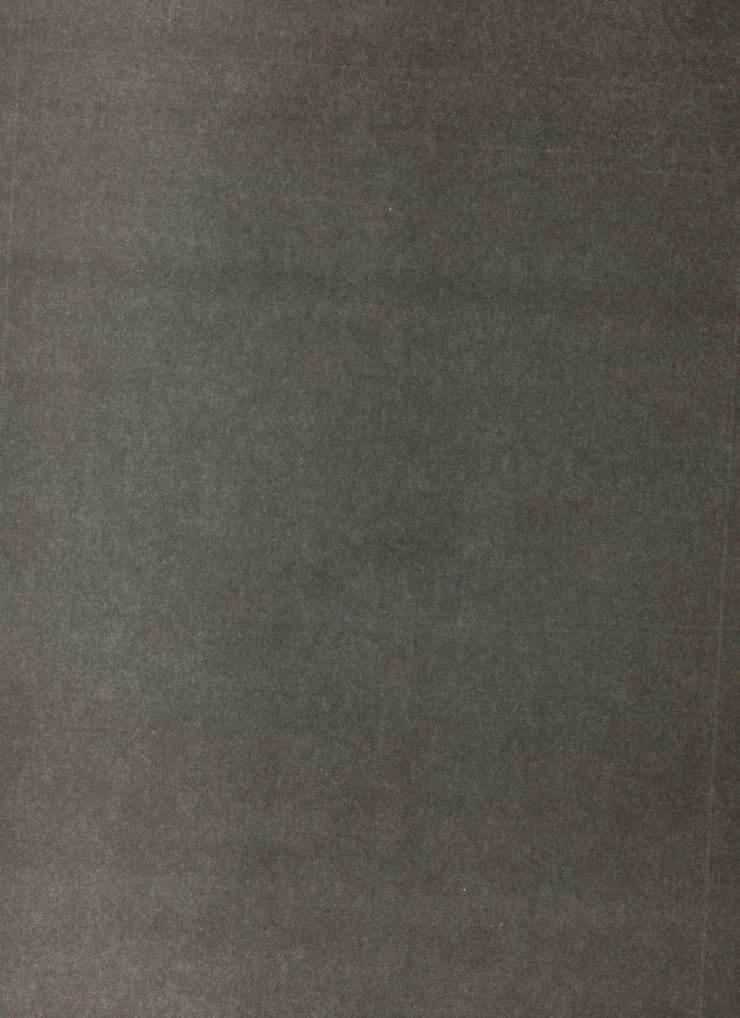
The Proposed Action (PA) alternative was labeled in compliance with WashIngton Office Instruction Memorandum 82-650, dated September 3, 1982, which directed that (for all grazing EIS's) initiated during and after FY 1983 the proposed action shall be the continuation of the present management situation based on the permittee's or lessee's active preference, previous year's licensed use, or average actual use.

- PH3.3

Statment (Oral) of W.J. Ball, Roswell, New Mexico Chairman of the New Mexico Association of Natural Resource Conservation District At this time, I have no oral statement to make, other than to endorse the statement made by Mr. Bud Eppers.



### ERRATA



## MODIFICATIONS AND CORRECTIONS TO THE DRAFT MANAGEMENT FRAMEWORK PLAN AMENDMENT/ENVIRONMENTAL IMPACT STATEMENT

#### INTRODUCTION

The modifications and corrections section contains revisions made to the Draft Management Framework Plan/Amendment/Environmental Impact Statement based on new or more complete information, changes in BLM guidance since release of the Draft, or errors and omissions identified through the public review process. Minor changes are incorporated into the Errata section below. Where significant changes have been identified, the entire page has been reprinted.

#### ERRATA

The following changes in the Draft MFPA/EIS are of editorial nature and are relatively minor. Consequently, the affected pages have not been reprinted in full. These changes are to be incorporated into the Draft MFPA/EIS. Pages b-13 and d-3 have been reprinted in full. Table 2-29 has been reprinted.

Page 1-14, under Decreased Livestock Grazing, second paragraph, line 1. Change: Grazing would be eliminated to Grazing preference would be suspended.

Page 1-14, Table 1-4, under CURRENT LICENSED AUMS Change: Total from 1516 to 516.

Page 1-17, second paragraph, line 5. Change: mOy to may.

Page 1-19, number 13, last line.

Add: ...or for a continual 16 month period where determined necessary.

Page 1-20, under Implementation Schedule, first paragraph, line 7. Change: necessary to justified.

Page 1-21, Figure 2.

Change: Issue Decision to Issue Decisions.

Page 2-6, first full paragraph, line 4.

Replace: are under Allotment Management Plans with have Allotment Management Plans or its equivalent.

Page 2-6, under Allotment.

Change: Roadrunner Ranches to Alvin Connell (Hays).

Page 2-8, Table 2-4, under WEG Change: 4 to 4L.

Page 2-10, under Water, paragraph 3, line 3.

Add: is based, in part, on.

Page 2-26, first paragraph.

Delete: lines 9, 10, 11 beginning with Recently, on line 9.

Page 2-29, under Characteristics.

Change: 36 sheep/cow-calf to 37 sheep/cow-calf.

Change: 40 cow-calf operations to 39 cow-calf operations.

Paragraph 4, line 2.

Delete: and the medium sheep operations.

Page 2-30, second full paragraph, line 5.

Delete: minus.

Table 2-12, Depreciation. Change: -72,067 to -72,607.

Page 2-31, Table 2-13.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by

sportsmen and cannot be compared to Table 2-12.

Page 3-8, Table 3-6. Delete: Sage Ram.

Page 3-28, Table 3-18.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by sportsmen and cannot be compared to Table 3-17.

Page 3-39, Table 3-29.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by sportsmen and cannot be compared to Table 3-28.

Page 3-45, under Socioeconomic Conditions.

Change: -21.16% to -21.6%

Page 3-46, Table 3-38.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by sportsmen and cannot be compared to Table 3-37.

Page 3-58, Table 3-50.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by sportsmen and cannot be compared to Table 3-49.

Page 3-64, Table 3-59.

Delete: Sage Ram.

Add: The change in recreation values is a change in expenditures by sportsmen and cannot be compared to Table 3-58.

Page 4-5, under District Advisory Council/Grazing Advisory Boards.
Add: Draper, Mark; Hamill, Gene; Treat, W.C.; Ball, William J.; Corn, Bronson; Greenwood, Hart Jr.

#### Appendices

Page b-3, (Appendix B-2) under 3011 Connell (Hays).

Change: 5480 to 7720; Change: 2240 to 0.

Page b-3 (Appendix B-2) under 3011 Connell (Byrd).

Change: 930 to 966 in both columns.

Page b-3 (Appendix B-2), under 3020 X-Bar Ranch.

Change: 2260 to 2660.

Page b-6 (Appendix B-2), under Original Adjudicated Preference (AUMS),

Change: total 163,675 to 164,711.

Under 5-Year Average Licensed Use (AUMs).

Change: total 150,206 to 150,242.

Page b-12 (Appendix B-3). Under 4071.

Change: Jack Price Est. to Price, George.

Under 4078.

Change: McCam to McCan.

Page b-14(Appendix B-4).

Delete: entire line beginning with 5032.

Change: total Federal Acres 136,319 to 127,840.

Delete: 548,352 Total.

Page b-15 (Appendix B-4),

Add: 5040 Harral, Malcolm 447 (ac.).

Page b-16 (Appendix B-4),

Change: 5080 to 5081.

Change: total Public Lands Acreage from 35,460 to 35,907.

Page i-4, Table I-3, under DLG

Change: Depreciation from 1369 to 4271.

Change: Returns to Operator from -2,902 to -2,395.

#### Glossary

Add:

COOPERATIVE AGREEMENTS. Title to structural or removable improvements shall be shared by the United States and cooperators in proportion to the actual amount of the respective contribution to the initial construction. Title to nonstructural or nonremovable improvements shall be in the United States.

LEK. An area where members of a species of the grouse family congregate to perform characteristic mating/breeding rituals.

SECTION 4 PERMITS. The permittee or lessee shall have title to removable range improvements fully constructed by private funds.

#### Literature Cited

Page 1c-3, third paragraph Change: Guidebood to Guidebook.

TABLE 2-9
ESTIMATED PERSONAL INCOME A/ AND EMPLOYMENT FOR THE ROSWELL RESOURCE AREA, 1982

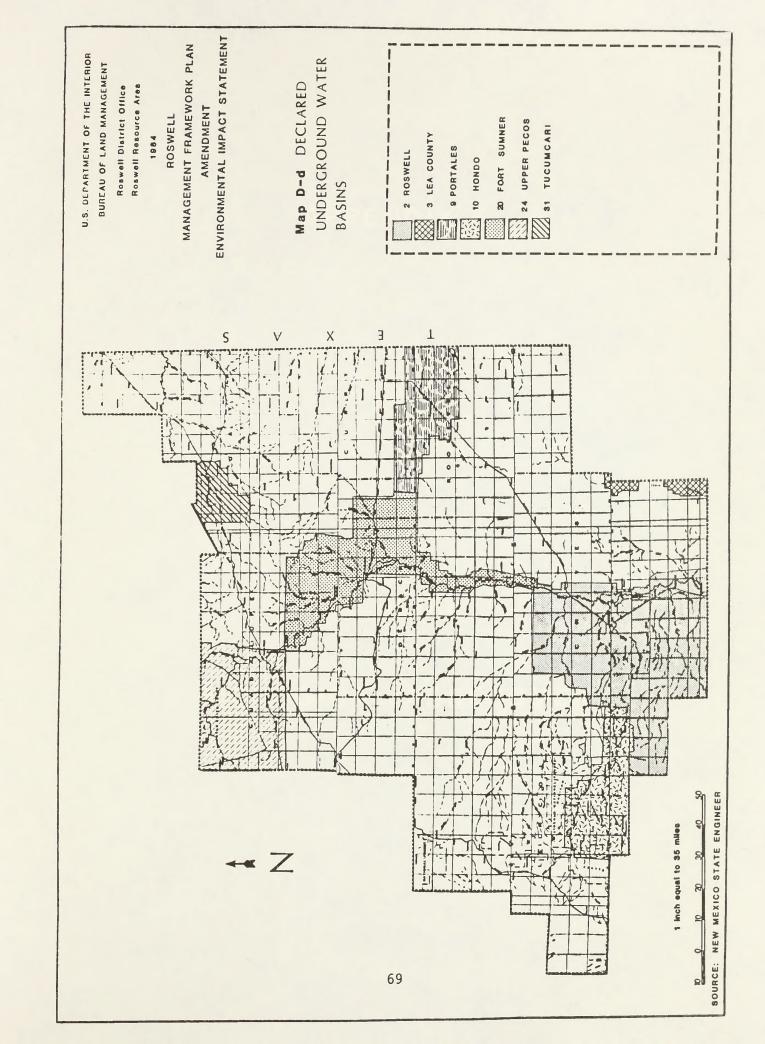
	Industry Sector	Income	Employment
1.	BLM Range Livestock	\$ 591,000	195
2.	Other Livestock	10,320,000	1,534
3.	Other Agriculture	7,343,000	1,149
4.	Agriculture, Forestry, Fisheries, Service	1,698,000	276
5.	Metal Mining	533,100	44
6.		795,900	41
	Petroleum & Natural Gas Well Development		
7.	Petroleum & Natural Gas Well Maintenance	697,300	31
8.	Petroleum & Natural Gas Extraction	2,576,000	179
9.	Other Mining	465,300	33
10.	Construction	48,950,000	2,472
11.	Prepared Feeds	10,160,000	297
12.	Other Food Products	15,620,000	1,402
13.	Apparel, Purchased Material	10,070,000	993
14.	Other Apparel	47,170	6
15.	Wood Products	219,600	24
16.	Furniture	34,450	3
17.	Paper Products	100,600	7
18.	Printing and Publishing	3,004,000	258
19.	Chemicals	481,300	34
20.	Rubber and Plastic Products	406,000	44
21.	Leather Products	56,210	6
22.		2,097,000	151
	Fabricated Metals	845,100	63
23.		502 200	
24.	Machinery, Except Electrical	593,300	56
25.	Electrical Equipment	1,699,000	124
26.	Motor Vehicles	9,572,000	635
27.	Other Transportation Equipment	44,880	3
28.	Miscellaneous Manufacturing	747,800	82
29.	Railroads	9,329,000	815
30.	Other Transportation	10,910,000	875
31.	Communication	7,867,000	539
32.	Utilities	6,367,000	517
33.	Wholesale Trade	20,720,000	1,816
34.	Retail Trade	40,590,000	6,274
35.	Finance, Insurance-Real Estate	24,690,000	2,036
36.	Hotels and Lodging Places	4,957,000	1,029
37.	Personal Services	5,732,000	625
38.	Business Services	4,672,000	524
39.	Professional Services	7,272,000	488
40.	Eating and Drinking Places	11,070,000	2,974
41.	Auto Repair and Service	5,550,000	327
42.	Amusement and Recreation Services	5,816,000	621
43.	Other Services	24,000,000	2,403
44.	BLM Range Improvements	405,500	29
		\$319,715,510	33,034

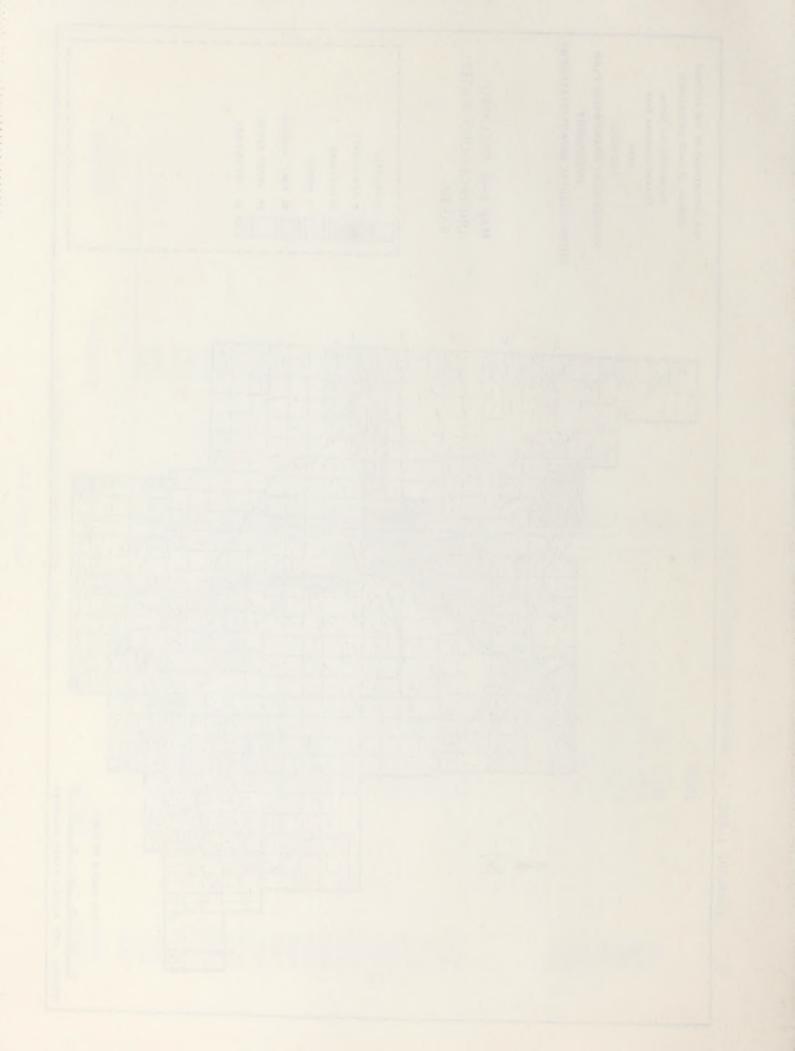
 $<sup>\</sup>underline{a}$ / Does not include proprietor income.

Source: BLM Roswell District Input/Output (I/O) files

"I" CATEGORY ALLOTMENTS/EAST CHAVES MFP

	Acres		
McDowell, Abner Bilberry Bud Cooper, Tom Durham, Bill Marley, Robert Davis, Tom Cooper, Carl Graham, Lyman Sand Ranch Isler Ranch Caprock Clemmons & Erdmann Marley, Robert Pearce, Roy Culp, Julia et al Graham, Annie M. Spears, J. D. & Raymond Malmstrom, Orville Derrick, Millard Barbe, Madeline River Millman Vest Camp Double Well	1,890 3,858 4,613 3,584 4,798 8,479 3,111 1,361 9,823 5,428 17,752 17,682 2,944 6,124 2,520 13,723 2,956 7,293 (56,950)	THTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1++111+1+1+1+1011+ 0+1+
Pipeline S & S Gomez, Gilbert Wilson, Charles Greenwood, George Taylor & Medlin Sams & Dean Bell, Joe	2,557 789 3,443 8,149 5,704 3,137 6,290	Fair Fair Good Fair Good	11110+10
TOTAL	388,495		

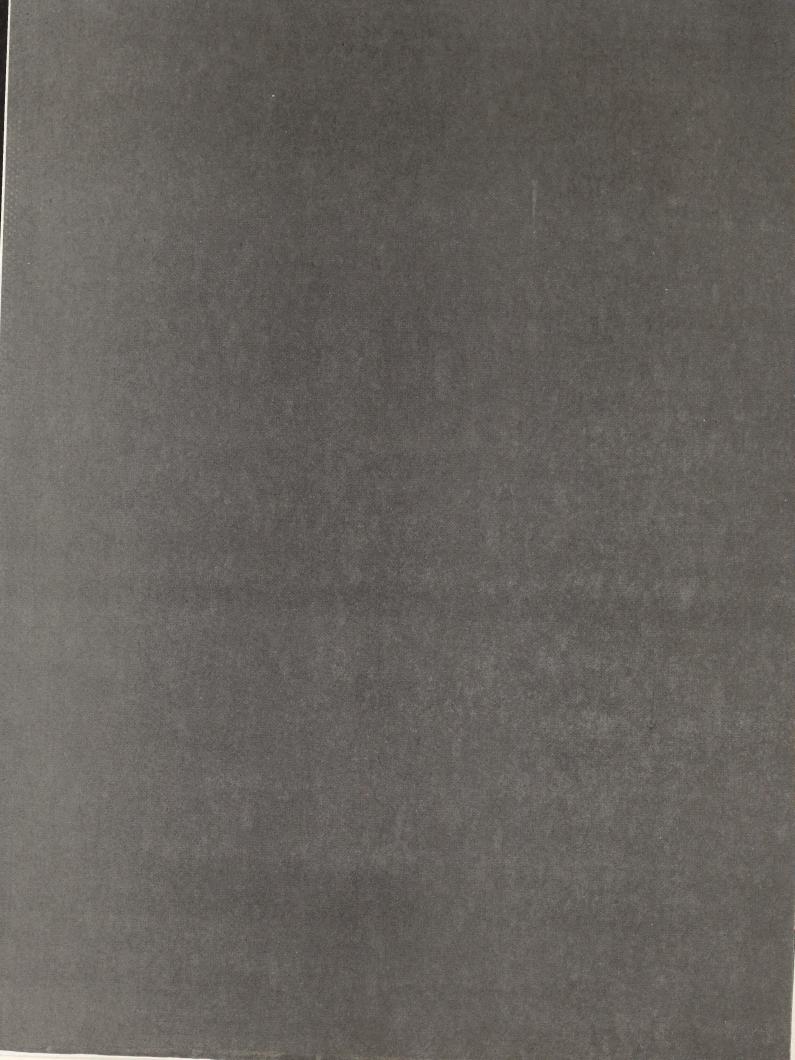




#### APPENDIX E

#### WILDLIFE

BIOLOGICAL ASSESSMENT





## UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

Field Supervisor Ecological Services, USFWS Post Office Box 4487 Albuquerque, New Mexico 87196

Cons. #2-22-83-I-092

June 28, 1984

Memorandum

To:

District Manager, Bureau of Land Management,

Roswell Resource Area, Roswell, New Mexico

From:

Field Supervisor, FWS, Ecological Services,

Albuquerque, New Mexico

Subject:

Biological Assessment for the Roswell Resource Area, Management Framework Plan Amendment/Draft

Environmental Impact Statement

We have reviewed your letter of May 25, 1984 which included changes to your assessment. Your action involves rangeland management in Chaves, Lincoln, Quay, Curry, DeBaca, Guadalupe and Roosevelt Counties, New Mexico.

We agree with your determination of no affect for the bluntnose shiner. Further Section 7 consultation is not necessary unless new information becomes available concerning listed species, new species are listed that may be affected by your action or the proposed action is modified. We look forward to working with you in the future.

John C. Peterson

cc:

Regional Director, FWS, HR and SE, Albuquerque, New Mexico

Biological Assessment for Roswell Resource Area Management Framework Plan Amendment/ Environmental Impact Statement

#### Prepared by:

U.S. Department of the Interior Bureau of Land Management Roswell District Office Roswell Resource Area

March 1984

#### Background Information

The implementation of a rangeland management program has been determined to be a major Federal action for which both an Environmental Impact Statement (EIS) and Biological Assessment (BA) are required in compliance with the National Environmental Policy Act (NEPA) and the 1973 Endangered Species Act. This BA is intended to meet the requirements set forth in the Endangered Species Act, and amendments thereof, for Bureau of Land Management (BLM) authorized activities proposed in the Roswell Management Framework Plan Amendment/Environmental Impact Statement (MFPA/EIS). Potential effects to Federal listed threatened, endangered, and candidate (category 1 and 2 plants, category 1 animals) species are addressed.

#### Introduction

The Bureau of Land Management, Roswell District Office, proposes to implement a rangeland management program for the Roswell Resource Area located in Chaves, Lincoln, Quay, Curry, DeBaca, Guadalupe, and Roosevelt counties of southeastern New Mexico. The Rangeland Management issue involves the amount of vegetation available for grazing and other uses; the methods of monitoring and evaluation, and rangeland improvements. Six alternatives, including a proposed action and the District's preferred alternative, have been analyzed: Proposed Action, District Preferred Alternative, Industry Preferred Alternative, Elimination of Livestock Grazing, Maximization Forage for Livestock, and Decreased Livestock Grazing.

In conjunction with the development of the MFPA/EIS, the 284 grazing permits and leases authorized in the Roswell Resource Area were placed into management categories: M - Maintain, I - Improve, and C - Custodial. The categorization is designed to facilitate assigning management priorities among allotments. Management actions which could occur by category include the following:

#### Maintain Category

Proposed grazing operations:

- Normal grazing operation (proper season of use, number and kind of livestock).

- Increases in livestock grazing use.

Monitoring at intensity needed to detect undesirable changes. Allowable range improvements.

CMP development.

Standard operating procedures.

#### Improve Category

Proposals for resolving identified issues and conflicts, including: Initial stocking levels (season of use, number and kind of livestock).

Constraints on livestock grazing use needed to protect or enhance other resource uses and values.

Production inventories and vegetation or forage allocations needed to resolve conflicts.

Monitoring at intensity needed to help resolve issues and conflicts. Site-specific range improvements (if known), or typical improvements needed to meet multiple-use objectives.

CMP development proposed.

Standard operating procedures.

#### Custodial Category

Proposed grazing operations:

- Normal operation (season of use, number and kind of livestock).

- Licensing on an ephemeral forage basis.

- Livestock use excluded.

Monitoring at intensity needed to protect existing resource values. Allowable rangeland improvements. CMP development proposed. Standard operating procedures.

Allotment categories will be periodically evaluated, during a five year monitoring program, to determine if the allotment characteristics have changed significantly enough to warrant a change in categories.

#### Description of the Proposed Action and Alternatives

Proposed Action (PA)

The PA is the continuation of current management practices (no action). Initial and long-term livestock stocking rates would be set at the 5-year-average-licensed-use level of 228,656 AUMs. BLM range improvement funds would be used in areas where existing plans have been approved (Ft. Stanton MFP fand East Chaves MFP). No new grazing management plans would be developed.

District Preferred Alternative (DPA)

The DPA is designed to correct identified problems using a more intensive management program than is currently prescribed. Short-term stocking rates would be set at 219,695 AUMs with adjustments being taken on "I" category allotments. Long-term stocking rates are projected at 246,028 AUMs with increases being taken in both "M" and "I" category allotments. Range improvements, vegetation treatments, and grazing programs would be implemented on "I" category allotments, including: 15.5 miles of 4-strand barbed-wire fence, 17.5 miles of net-wire fence, 38 new water developments, 32.5 miles of water pipeline, 47,022 acres of brush control (30,177 acres of chemical control), and grazing programs on 290,493 acres.

Industry Preferred Alternative (IPA)

This alternative was developed and offered by the New Mexico Department of Agriculture and the Southeastern New Mexico Grazing Association. Emphasis is placed on range improvements and vegetation treatments to correct problems, with minimal BLM management. Short-term stocking rates would be 219,695 AUMs; long-term stocking rates are projected at 236,937 AUMs. Rangeland improvements and vegetation treatments, implemented on "I" category allotments, are identical to those prescribed in the DPA.

#### Elimination of Livestock Grazing (ELG)

Under the ELG alternative, all domestic livestock grazing on public land would be discontinued and all vegetation would be available to enhance wildlife habitat, watershed stabilization, and aesthetics. Rangeland improvement projects would be limited to those improvements which would benefit wildlife, watershed, or other resources as special appropriations are made. Existing improvements which would interfere with wildlife movements, or which would serve no useful purpose, would be removed.

Maximization of Forage for Livestock (MAX)

The management direction under the MAX alternative is to initiate an intensive program of rangeland management designed to achieve maximum forage production for livestock. Short-term stocking rates would be set at 213,556 AUMs; long-term stocking rates are projected to be 296,061 AUMs with increases in both "M" and "I" category allotments. Rangeland improvements, vegetation treatments, and grazing programs would be initiated on both "M" and "I" category allotments, including: 17.5 miles of 4-strand barbed-wire fence, 29.5 miles of net-wire fence, 80 new water developments, 69.1 miles of water pipeline, 51,200 acres of vegetation treatments (31,737 acres of chemical brush control), and grazing programs on 899,745 acres.

Decreased Livestock Grazing (DLG)

Under the DLG, licensed grazing would be reduced by approximately 23 percent overall. Reductions would occur on both "M" and "I" category allotments, depending on the amount of poor and fair condition range, if any, per allotment. Livestock grazing would be eliminated on 23,502 acres of poor condition rangeland, and reduced 50 percent on 340,800 acres of fair condition range. Long-term stocking rates are projected at 175,686 AUMs. Range improvements would be initiated only in areas with existing approved plans (Ft. Stanton MFP, East Chaves MFP).

#### Environmental Consequences of the Proposed Action and Alternatives

Proposed Action (PA)

Under the PA, wildlife numbers would fluctuate slightly with climate and habitat conditions, but would generally remain the same. Range and watershed conditions would remain about the same and continue current trends. No changes would occur to other resource components.

District Preferred Alternative (DPA)

Under the DPA, wildlife numbers would increase of remain unchanged: Mule deer +17%; Antelope +27%; Upland game and waterfowl - unchanged. Range conditions would improve; acreage in the good condition class would increase by 34 percent. Watershed conditions would improve with the acreage in the critical erosion class decreasing by 35 percent. Recreation visitor hours would increase by 18 percent (10,151 hours). Socioeconomic conditions would reflect a 3.9 percent increase in ranch operators' overall gross income.

#### Industry Preferred Alternative (IPA)

Under the IPA, wildlife numbers would increase or remain unchanged: Mule deer +11%; Antelope +9%; Upland game and waterfowl - unchanged. Range conditions would improve, with acreage in the good condition class increasing by 8 percent. Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent. Recreation visitor hours would increase by 13 percent (7,403 hours). Socioeconomic conditions would reflect a 3.5 percent increase in ranch operators' overall gross income.

#### Elimination of Livestock Grazing (ELG)

Under the ELG, wildlife numbers would increase: Mule deer +33%; Antelope +49%; Upland game and waterfowl - slight increase. Range conditions would improve, with acreage in the good condition class increasing by 53 percent. Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent. Recreation visitor hours would increase by 35 percent (19,040 hours). Socioeconomic conditions would reflect a 47.8 percent decrease in ranch operators' overall gross income.

#### Maximization of Forage for Livestock (MAX)

Under the MAX, wildlife numbers would decrease: Mule deer -5%;
Antelope -25%; Upland game and waterfowl - slight decrease. Range conditions would change, with a 20 percent decrease in the good condition class acreage. Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 35 percent. a/ Recreation visitor hours would decrease by 7 percent (3,633 hours). Socioeconomic conditions would reflect a 17.7 percent increase in ranch operators' overall gross income.

#### Decreased Livestock Grazing (DLG)

Under the DLG, wildlife numbers would increase or remain unchanged: Mule deer +21%; Antelope +16%; Upland game and waterfowl - unchanged. Range conditions would improve, with the acreage in the good condition class increasing by 52 percent. Watershed conditions would improve, with the acreage in the critical erosion class decreasing by 20 percent. Recreation visitor hours would increase by 17 percent (9,462 hours). Socioeconomic conditions would reflect a 19.5 percent decrease in ranch operators' overall gross income.

#### Standard Operating Procedures and Mitigation Measures

Standard operating procedures have been established to avoid creating any threat to Federal or State T/E species. Site by site analysis, consultation, and mitigation would occur in any area where a potential threat may exist.

a/ Vegetation treatments would be accomplished on the areas that are Included in the critical erosion class and management would be applied to these areas.

- l. A threatened, endangered, State-listed, or proposed-listed species clearance would be conducted by an appropriate BLM staff biologist prior to the beginning of any project. If a "may affect" determination is made by the staff biologist, consultation would be undertaken with U.S. Fish and Wildlife Service (USFWS), New Mexico Department of Game and Fish (NMDG&F), or the New Mexico Natural Heritage Program (NMNHP) listing the species which may be affected. The results of the consultation would determine the course of action necessary to avoid adverse effects on listed species.
- 2. Application of herbicides would be in conformance with BLM Manual 9220 and State of New Mexico and U.S. Environmental Protection Agency (USEPA) standards. Herbicides proposed for use would be authorized by the USEPA, the New Mexico Department of Agriculture (NMDA), and the DOI, and must be registered by the USEPA and NMDA. NMDA restricted use regulations would be consulted prior to any herbicide application.
- 3. Areas meeting riparian and wetland habitat criteria would be assessed to determine if protection is needed to provide wildlife habitat. Protection measures would be selected for individual situations to include protective fencing, adjustments in livestock use, and/or establishment of buffer strips, as necessary.

#### Federal Listed Animal Species

Bluntnose Shiner - Notropis simus - Federal proposed

The subspecies, N. s. pecosensis, occurs in the Pecos River from south of Santa Rosa to the Major Johnson Springs and north of Carlsbad (Hatch 1983). No population estimates have been conducted, however, the present abundance of N. s. pecosensis appears to be much lower than in the past based on collection records. Critical habitat has not been designated for this species.

Research indicates altered flows, water quality, increased sedimentation, and the use of fish toxicants are probably contributing factors that may have eliminated N. s. pecosensis in some spring systems (Hatch 1983, Hubbard 1979). The DPA,  $\overline{IPA}$ , and MAX alternatives prescribe a program of rangeland improvements and vegetation treatments, including chemical brush control, to improve rangeland condition. Sufficient precautions would be used during application of herbicides to prevent contamination of any live waters. Included among the standard operating procedures listed on pages 1-18 through 1-20 are two which would provide protection for  $\underline{N}$ . s. pecosensis habitat (Pecos River):

- 12. Application of herbicides would be in conformance with BLM Manual 9220 and State of New Mexico and U.S. Environmental Protection Agency (USEPA) standards. Herbicides proposed for use would be authorized by the USEPA, the New Mexico Department of Agriculture (NMDA), and the DOI, and must be registered by the USEPA and NMDA. NMDA restricted use regulations would be consulted prior to any herbicide application.
- 14. Important wildlife habitat, such as broadleaf tree groves, aquatic and riparian sites, dirt tanks, watering tubs, active raptor nests, and the areas around them would be protected during brush control operations. These

areas would be protected through the use of nonlethal rates of herbicides, or other means as deemed appropriate by resource specialists. Pseudoriparian areas and most major drainages, would be excluded from chemical treatment. Drainages containing perennial streams would be excluded from chemical treatment programs within a distance of 1,320 feet.

Under the Proposed Alternative, sediment yields would remain at the existing slight levels of approximately 0.40 ac.ft./mi.²/yr. All other alternatives decrease sediment yields to between 0.30 and 0.35 ac.ft./mi.²/yr. as a result of improved ecological range condition class. These levels are still within the slight sediment yield class. Sedimentation occuring at the existing slight level on public lands addressed in our MFPA/EIS is not believed to be a factor significantly limiting the species. The lack of instream flow resulting from impoundment, diversion, and irrigation use of the Pecos River; pumping of surrounding subsurface aquifers; and feed lot runoff, for which BLM has no control, are the primary factors limiting the bluntnose shiner. In view of this, we conclude that there will be no effect on the bluntnose shiner resulting from actions proposed in the West Roswell MFPA/EIS.

#### Federal Listed Plant Species

Kuenzler Hedgehog Cactus - Echinocereus fendleri var. kuenzleri - Endangered

This species occurs on gently sloping limestone outcrops in the Pinyon/Juniper association near Elk and possibly near Tinnie, at approximately 6,000 feet (Wagner and Sabo, 1978). These isolated populations were found on Forest Service lands and privately owned lands. A thorough search of potential habitat on BLM lands was conducted by biologists in 1982-1983. No populations or individual plants of E. kuenzleri were found on BLM surface. No critical habitat has been designated.

It appears the most critical threat to <u>E</u>. <u>kuenzleri</u> is from unauthorized private collectors. None of the alternatives analyzed in the MFPA/EIS would affect <u>E</u>. <u>kuenzleri</u>. The potential habitat does not occur near any areas which would be a candidate for vegetation treatments or rangeland improvements.

Desert Rose (Star Rose) - Rosa stellata - Candidate

Indistinct characteristics and confusion among taxonomists have created unresolved problems in classifying the various subspecies of R. stellata which occur in southeastern New Mexico. At least one subspecies, probably R. stellata var. mirifica, occurs somewhat commonly in the White and Sacramento Mountains in Lincoln County (pers. comm. Reggie Fletcher, USFS, Albuquerque). The species occurs on open rocky slopes at elevations of 5,000 to 8,000 feet (Martin and Hutchins 1980).

Specimens have been collected from Forest Service lands and Mescalero Indian Reservation lands in the White and Sacramento Mountains (NMHP files). It is unlikely that the species occurs on BLM lands within the resource area. None of the actions proposed in this MFPA/EIS would adversely impact the species. No range improvements or vegetation treatments are proposed in areas where  $\underline{R}$ . stellata could potentially occur. Livestock grazing would not be a threat to this species.

#### Panhandle Euphorbia (Panhandle Spurge) - Euphorbia striction

E. striction occurs on dry hills and plains in eastern New Mexico at elevations of 4,000 to 6,000 feet (Martin and Hutchins, 1980). In the Roswell Resource Area, it occurs in Quay County which contains only 1,000 acres of BLM surface, or much less than 1 percent of the county's land area.

No vegetation treatments or rangeland improvements are proposed for Quay County in this MFPA/DEIS. No BLM authorized activities would affect the continued survival of E. striction.

[In the November 28, 1983 Federal Register (Vol. 229, pgs. 53640-53670), E. striction was designated as Category 3C, having been reviewed and the determination made not to classify this species on the Federal list.]

#### State Listed Species

Of the species identified by the State, five species - two animals and three plants - received a "may-affect" determination following analysis of the proposed actions described in the alternatives.

#### State Listed Animal Species

#### Trans-Pecos Rat Snake - Elaphe subocularis - Group II

The trans-pecos rat snake is an inhabitant of arid to semi-arid, rocky, desert shrub areas (Hubbard 1979). Preferred habitat includes creosote brush habitats (Stebbins 1954). Control of creosote proposed in the DPA, IPA, and MAX alternatives would be detrimental to this species unless islands of creosote brush were left scattered throughout the control area. Site by site analysis would occur and consultation with NMDGF would be carried out.

#### Sanddune Sagebrush Lizard - Sceloporus graciousus arenicolus - Group II

Control of shinnery oak proposed in the DPA alternative in the East Roswell area, without specific mitigating measures, would be detrimental to the sanddune sagebrush lizard. Naturally occurring dune stabilization and low population densities (3.0 to 4.8/ac) prompted the listing of this species as State Endangered Group II, and the proposal for Federal listing. Degenhardt and Sena (1976) and Egbert (1979) described 4 habitat types within the shinnery community - sand flats, oak sand hummocks, dune interface, and open dunes - and indicated that stabilization of dune/blowout shinnery habitat would critically lower sanddune sagebrush lizard densities. Shinnery control would greatly speed up the dune stabilization process. Both oak/sand hummocks, and dune interface habitats are considered preferred habitat, and are usually found within the readily identifiable SCS SD-3 sandhills range site. To mitigate potential adverse impacts on the sanddune sagebrush lizard population, essential lizard habitat would be maintained in the SD-3 sandhills range site in each spray pasture.

#### State Listed Plant Species

#### Guadalupe Milkvetch - Astragalus pictiformis - Special Concern

Guadalupe milkvetch is found on stony limestone hills and plains. It is an uncommon cool season perennial. Brush control proposed in the DPA, IPA,

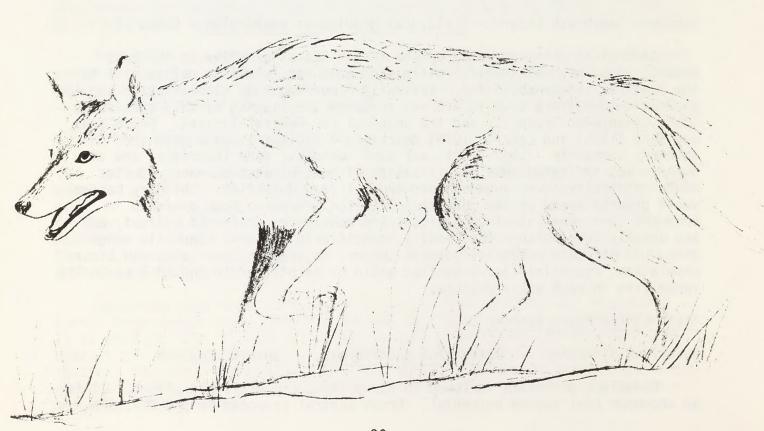
and MAX alternatives could adversely affect this species by directly killing plants. Field checks, prior to brush control, would be required to ensure this species is not found within proposed spray areas. Mitigation would be limited to preserving those habitats where it is found. The Guadalupe milkvetch may be affected by livestock grazing, however, the extent of the impact is unknown.

#### Zephyr Lily - Zephyranthes longifolia - Special Concern

Zephyr lilies are inhabitants of alkaline soils on plains habitats in the area of concern. Brush control proposed under the DPA, IPA, and MAX alternatives would adversely affect this species. Field checks prior to brush treatment would be required to ensure survival of this species. Mitigation would consist of preserving habitat.

#### Davis Cholla - Opuntia davisii - Special Concern

Davis cholla is a relatively common inhabitant of limestone canyon and plains habitats that may or may not be infested with mesquite. Chemical or mechanical control proposed in the DPA, IPA, and MAX alternatives in these areas would adversely affect the Davis cholla. Field checks prior to treatment of mesquite would be required to ensure protection of this species. Mitigation would consist of preserving occupied habitat.



#### Literature Cited

- Degenhardt, W.G. and A.P. Sena. "Report on the Endangered Sand Dune (Sagebrush) Lizard, Sceloporus graciosus arenicolus, in Southeastern New Mexico." Museum of Southwest Biology, University of New Mexico, Albuquerque, New Mexico. 1976.
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- Hatch, M.D. "The Status of Notropis simus pecosensis in the Pecos River of New Mexico with Notes on Life History and Ecology." NMDG&F Report. 1983.
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- Martin, W.C. and C.R. Hutchins. A Flora of New Mexico. A.R. Gantner Verlag K.G., Vadiz Germany. 2592 pp. 1980.
- Stebbins, R.C. Amphibians and Reptiles of Western North America. New York, N.Y.: McGraw Hill Book Company. 1954.
- Wagner, W.L. and D.G. Sabo. "Status Report for <u>Echinocereus fendleri</u> var. kuenzleri." USFWS. 1978.

FEDERAL SPECIES (identified by USFWS)			
Animal Bluntnosed shiner	Notropis simus	Proposed	no affect
Plant Kuenzler hedgehog cactus Desert rose Panhandle euphorbia	Echinocereus fendleri var. kuenzleri Rosa stellata Euphorbia striction	Endangered Candidate Candidate	no affect no affect no affect
FEDERAL SPECIES  (identified by NMDG&F, I	NMHP)		
Black footed ferret a/ Peregrine falcon a/ Bald eagle a/ Pecos gambusia a/	Mustela nigripes Falco peregrinus anatum Hallaeetus Teucocephalus Gambusia nobilis	Group I b/ Group I Group II	no affect no affect no affect
STATE SPECIES			
Animal Tularosa Black-tailed Prairie dog Mississippi kite Least tern Gray vireo Baird's sparrow McCown's longspur River cooter Sanddune sagebrush lizard  Plainbelly water snake Trans-pecos rat snake (Pecos) western ribbon snake  Sacramento mountain salamander Eastern barking frog Gray redhorse Arkansas river shiner Mexican tetra Bluntnosed shiner Suckermouth minnow Mississippi silvery minnow	Cynomys Iudovicianus Ictinia mississippiensis Sterna antillarum Vireo vicinior Ammodramus bairdii Calcarius mccowni Pseudemys concinna Sceloporus graciosus arenicolus Nerodia erythrogaster Elaphe subocularis Thamnophis proximus diabolicus  Plethodon neomexicana Hylactophryne augusti Moxostoma congestum Notropis girardi Astyanax mexicanus Notropis simus pecosensis Phenacobius mirabilis Hybognathus nuchalis	Group II c/ Group II Group I Group II	no affect may affect no affect
Mississippi silvery minnow Speckled chub	Hybognathus nuchalis Hybopsis aestivalis tetranemus	Group II	no affect

Scientific Name

Status

Determination of Affect

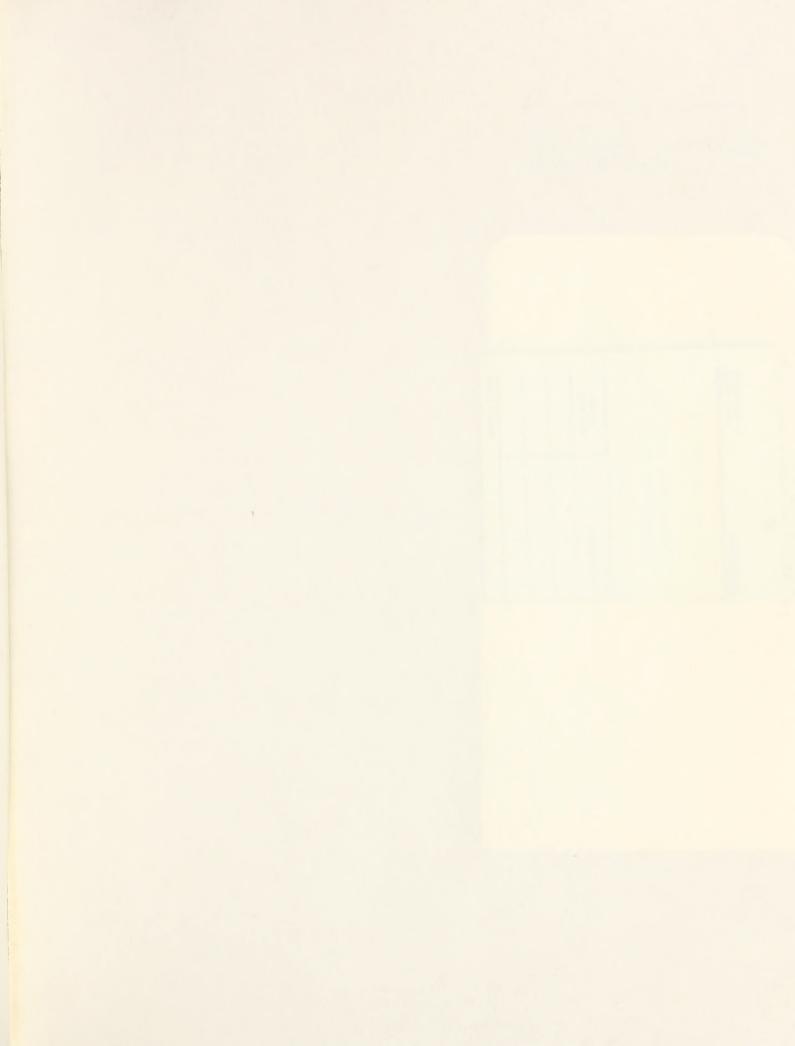
Common Name

Common Name	Scientific Name	Status D	etermination of Affect
Bigscale logperch	Percina macrolepida	Group II	no affect
Greenthroat darter	Etheostoma Tepidum	Group II	no affect
Pecos assiminea	Assiminea spp.	Group I	no affect
Roswell spring snail	Fonflicella spp.	Group I	no affect
Pope's mussel	Popenaias popei	Group I	no affect
Pecos spring snail	Fontelice Ta spp.	Group II	no affect
Koster's spring snail	Tryonia spp.	Group II	no affect
Say's pond snail	Lymnaea caperata	Group II	no affect
New Mexico ramshorn snail	Planorbidae spp.	Group II	no affect
Plant	A	C1-1 C	
Bigtooth maple	Acer grandidentatum	Special Concern	
Gyp ringstem	Anulocaulis gypsogenus	Special Concern	
Rock spleenwort	Asplenium resiliens	Special Concern	
New Mexico Astragalus	Astragalus neomexicanus	Special Concern	
Guadalupe milkvetch	Astragalus pictiformis	Special Concern	· · · · · · · · · · · · · · · · · · ·
Brickelbush	Brickellia modesta	Special Concern	
Indian paintbrush	Castilleja wootonii	Special Concern	
	Cirsium inoratum	Special Concern	
Ctrined earstreet	Circaea alpinai	Special Concern	no affect
Striped coralroot	Corallorhiza striata var	Constal Company	
Kuanalar Hadaahaa sastus	striata	Special Concern	no affect
Kuenzler Hedgehog cactus	kuenzleri fenderi var	Consist Consorn	no officet
Common button cactus		Special Concern	
	Epithelantha micromeris	Special Concern	
Panhandle euphorbia	Euphorbia striction Eustoma grandiflorum	Special Concern	
Snowy prairie-gentian Bog orchid	Habenaria sparsiflora	Special concert	110 311 601
209 0.0.114	var brevitolia	Special Concern	no affect
	Hedeoma costatum	Special Concern	
False pennyroyal	Hedeoma pulcherrima	Special Concern	
Gyp sunflower	Helianthus paradoxus	Special Concern	
Dedberry juniper	Juniperus pinchotii	Special Concern	
, J	Justicia wrightii	Special Concern	
Oolden bladderpod	Lesquerel Ta aurea	Special Concern	no affect
Scaly bladderpod	Lesquerella valida	Special Concern	no affect
California sealavender	Limonium limbatum	Special Concern	no affect
Lupine	Lupinus aquilinus	Special Concern	no affect
White Mountain Lupine	Lupinus sierrae-blancae	Special Concern	no affect
Stickleaf	Mentzelia perennis	Special Concern	no affect
Nama	Nama foilosum	Special Concern	no affect
Davis cholla	Opuntia davisii	Special Concern	may affect
Royal beardstongue	Penstemon cardinalis var		
	cardinalis	Special Concern	
Scorpionweed	Phacelia depauperata	Special Concern	
Scorpionweed	Phacella intermedia	Special Concern	
Scorpionweed	Phacelia rupestris	Special Concern	
Silvercup mockorange	Philadelphis argyrocalyx	Special Concern	no affect

Common Name	Scientific Name	Status Det	ermination of Affect
Thurber pilostyles	Pilostyles thurberi	Special Concern	no affect
Primrose	Primula ellisiae	Special Concern	no affect
Desert rose	Rosa stellata	Special Concern	no affect
Figwort	Scrophularia montana	Special Concern	no affect
Ladiestresses	Spiranthes parasitica	Special Concern	no affect
	Tetradymia filiofolia	Special Concern	no affect
Wright spiderwort	Tradescantia wrightii	Special Concern	no affect
Texas valerian	Valeriana texana	Special Concern	no affect
Zephyr Lily	Zephyranthes longifolia	Special Concern	may affect

- These species are also on the Federal endangered species list but were not selected by USFWS for analysis in this document.

  Group | Indicates endangered status a/
- b/ Group II - Indicates threatened status <u>c</u>/
- Plants of special concern have no legislative acknowledgements, therefore no legal protection 7/





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